

# SAFETY DATA SHEET

# 1. Identification

Product identifier	TACK-IT			
Other means of identification				
SDS number	573N-12A			
Product code	HIL00458			
Recommended use	Floor Cleaner			
<b>Recommended restrictions</b>	None known.			
Manufacturer/Importer/Supplier/	Distributor information			
Manufacturer				
Manufacturer				
Company name	HILLYARD INDUSTRIES			
Address	302 North Fourth St.			
	St. Joseph, MO 64501			
Contact person	Regulatory Affairs			
Telephone number	(816) 233-1321 (Ext. 8285)			
Fax	(816) 383-8485			
E-mail	regulatoryaffairs@hillyard.com			
Emergency telephone #	(800) 424-9300			
	(Only in the event of chemical emergency invo	olving a spill, leak, fire, exposure,		
	or accident involving chemicals.)			
2. Hazard(s) identification				
Physical hazards	Flammable liquids	Category 4		
Health hazards	Acute toxicity, oral	Category 5		
	Acute toxicity, inhalation	Category 5		
Environmental hazards	Not classified.			

OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	Warning
Hazard statement	Combustible liquid. May be harmful if swallowed. May be harmful if inhaled.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid contact with eyes
Response	If in eyes, flush with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethylene glycol monobutyl ether		111-76-2	1 - < 3
Isopropyl Alcohol		67-63-0	1 - < 3
Other components below reportable le	evels		90 - 100
Material name: TACK-IT			S

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishingDo not use water jet as an extinguisher, as this will spread the fire.media	
Specific hazards arising from the chemicalThe product is combustible, and heating may generate vapors which may form explosive vapor/a mixtures. During fire, gases hazardous to health may be formed.	ir
<b>Special protective equipment</b> Self-contained breathing apparatus and full protective clothing must be worn in case of fire. <b>and precautions for firefighters</b>	
Fire fightingIn case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can on so without risk.	ob
Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards Combustible liquid.	

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin, or on clothing. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

cupational exposure limits US. OSHA Table Z-1 Limit Components	s for Air Contaminants Type			lue
·	-		-	
Ethylene glycol monobutyl ether (CAS 111-76-2)	PEL		24	0 mg/m3
			50	ppm
Isopropyl Alcohol (CAS	PEL		98	0 mg/m3
67-63-0)			40	0 ppm
US. ACGIH Threshold Lim	hit Values		10	
Components	Туре		Va	lue
Ethylene glycol monobutyl	TWA		20	ppm
ether (CAS 111-76-2)				
Isopropyl Alcohol (CAS 67-63-0)	STEL		40	0 ppm
07-03-07	TWA		20	0 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре		Va	lue
Ethylene glycol monobutyl	TWA		24	mg/m3
ether (CAS 111-76-2)			_	
Isopropyl Alcohol (CAS	STEL			opm 25 mg/m3
67-63-0)	SIEL		12	25 mg/m3
,			50	0 ppm
	TWA		98	0 mg/m3
			40	0 ppm
logical limit values			40	0 ppm
ACGIH Biological Exposu		<b>D</b> ( ) ) ) ( ) )		
ACGIH Biological Exposu Components	Value	Determinant	40 Specimen	0 ppm Sampling Time
ACGIH Biological Exposu Components Ethylene glycol monobutyl		Butoxyacetic	Specimen Creatinine in	
ACGIH Biological Exposu Components	Value	Butoxyacetic acid (BAA),	Specimen	
ACGIH Biological Exposu Components Ethylene glycol monobutyl	Value	Butoxyacetic	Specimen Creatinine in	
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS	Value 200 mg/g 40 mg/l	Butoxyacetic acid (BAA), with hydrolysis Acetone	Specimen Creatinine in urine	Sampling Time
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0)	Value 200 mg/g 40 mg/l	Butoxyacetic acid (BAA), with hydrolysis Acetone	Specimen Creatinine in urine	Sampling Time
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple	Value 200 mg/g 40 mg/l ase see the source docu	Butoxyacetic acid (BAA), with hydrolysis Acetone	Specimen Creatinine in urine	Sampling Time
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple posure guidelines US - California OELs: Skin	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ment. 2) Can be	Specimen Creatinine in urine	Sampling Time * *
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple posure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 : Skin designation appl utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ument. 2) Can be lies	Specimen Creatinine in urine Urine	Sampling Time * * * *
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple posure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 is Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ment. 2) Can be ies 2) Skin de 2) Can be	Specimen Creatinine in urine Urine	sampling Time * * * sgh the skin. ss.
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple posure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide t Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 : Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 o Chemical Hazards: S utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ument. (ies (ies (2) Can be kin designation (2) Can be (2) Can be	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu	Sampling Time * * * sgh the skin. ss. ugh the skin.
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple bosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide t Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 : Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 o Chemical Hazards: S utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ment. 2) Can be <b>ies</b> 2) Skin de 2) Can be <b>kin designation</b> 2) Can be 5 (29 CFR 1910.10	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu	sampling Time * * * sgh the skin. ss. ugh the skin. ugh the skin.
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple bosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide t Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 in designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 o Chemical Hazards: S utyl ether (CAS 111-76-2 s for Air Contaminants utyl ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. (2) Can be (ies (2) Can be kin designation (2) Can be (2) Can be	Specimen Creatinine in urine Urine e absorbed throu e absorbed throu e absorbed throu o) e absorbed throu	sampling Time * * * sgh the skin. ss. ugh the skin. ugh the skin.
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple Dosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide to Ethylene glycol monob US. OSHA Table Z-1 Limit Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu <b>n designation</b> utyl ether (CAS 111-76-2 <b>in designation</b> utyl ether (CAS 111-76-2 <b>in designation</b> utyl ether (CAS 111-76-2 <b>in designation</b> utyl ether (CAS 111-76-2 <b>s for Air Contaminants</b> utyl ether (CAS 111-76-2 <b>s for Air Contaminants</b> utyl ether (CAS 111-76-2 <b>in designation</b> <b>in de</b>	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. (2) Can be (2) Can be (3) Can be (3) Can be (4) Can be (4) Can be (5) Can be (5) Can be (5) Can be (6) Can be (6) Can be (7) Can be	Specimen Creatinine in urine Urine e absorbed throu e absorbed throu e absorbed throu e absorbed throu on e absorbed throu air changes per f plicable, use pro ain airborne level	sampling Time * * * sgh the skin. gh the skin. gh the skin. gh the skin.
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple osure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Skin Ethylene glycol monob US NIOSH Pocket Guide to Ethylene glycol monob US. OSHA Table Z-1 Limit Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 : Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 s for Air Contaminants utyl ether (CAS 111-76-2 s for Air Contaminants utyl ether (CAS 111-76-2 s for Air Contaminants utyl ether (CAS 111-76-2 good general ventils should be matched or other engineering exposure limits have	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. 2) Can be kin designation 2) Can be kin designation 2) Can be (29 CFR 1910.10 2) Can be ation (typically 10 a to conditions. If ap p controls to mainta e not been establis	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu air changes per h plicable, use pro ain airborne level thed, maintain ai	sampling Time * * * * * * * * * * * * * * * * * * *
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple bosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide t Ethylene glycol monob US. OSHA Table Z-1 Limit Ethylene glycol monob	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 is Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 is for Air Contaminants utyl ether (CAS 111-76-2 s for Air Contaminants s tyle ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. 2) Can be ies 2) Can be kin designation 2) Can be kin designation 2) Can be (29 CFR 1910.10 2) Can be ation (typically 10 a to conditions. If ap controls to mainta e not been establis otective equipme	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu air changes per f plicable, use pro ain airborne level thed, maintain ai	sampling Time * * * * * * * * * * * * * * * * * * *
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple bosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide to Ethylene glycol monob US. OSHA Table Z-1 Limit Ethylene glycol monob oropriate engineering ntrols	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 is Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 is for Air Contaminants utyl ether (CAS 111-76-2 s for Air Contaminants s tyle ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. 2) Can be ies 2) Can be kin designation 2) Can be kin designation 2) Can be (29 CFR 1910.10 2) Can be ation (typically 10 a to conditions. If ap controls to mainta e not been establis otective equipme	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu air changes per f plicable, use pro ain airborne level thed, maintain ai	sampling Time * * * ugh the skin. * ugh the skin. * ugh the skin. * ugh the skin. * * * * * * * * * * * * * * * * * * *
ACGIH Biological Exposu Components Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0) * - For sampling details, ple bosure guidelines US - California OELs: Skin Ethylene glycol monob US - Minnesota Haz Subs Ethylene glycol monob US - Tennessee OELs: Ski Ethylene glycol monob US NIOSH Pocket Guide t Ethylene glycol monob US. OSHA Table Z-1 Limit Ethylene glycol monob propriate engineering itrols	Value 200 mg/g 40 mg/l ase see the source docu n designation utyl ether (CAS 111-76-2 is Skin designation appl utyl ether (CAS 111-76-2 in designation utyl ether (CAS 111-76-2 is for Air Contaminants utyl ether (CAS 111-76-2 s for Air Contaminants s tyle ether (CAS 111-76-2	Butoxyacetic acid (BAA), with hydrolysis Acetone ament. 2) Can be ies 2) Can be kin designation 2) Can be kin designation 2) Can be controls to mainta a not been establis otective equipme concentrate is a co	Specimen Creatinine in urine Urine e absorbed throu esignation applie e absorbed throu e absorbed throu air changes per f plicable, use pro ain airborne level thed, maintain ai	sampling Time * * * ugh the skin. * ugh the skin. * ugh the skin. * ugh the skin. * * * * * * * * * * * * * * * * * * *

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	None known.
General hygiene considerations	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

9. Physical and chemical p	bioperties
Appearance	Clear, transparent liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Butyl cellosolve odor
Odor threshold	Not available
рН	7 - 8
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling range	208 °F (97.78 °C)
Flash point	> 141.0 °F (> 60.6 °C) Tag Closed Cup
Evaporation rate	< 1 (ethyl ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.61 mm Hg
Vapor density	0.712 AIR=1
Relative density	0.99 at 77°F
Solubility(ies)	
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.28 Not available
Percent volatile	> 99 %
VOC (Weight %)	4 %
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known. products

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation May be harmful if inhaled.

Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.			
Eye contact	Direct contact with eyes may cause temporary irritation.			
Ingestion	May be harmful if swallowed.			
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.			
Information on toxicological	effects			
Acute toxicity	May be harmful if swallowed. May	May be harmful if swallowed. May be harmful if inhaled.		
Product	Species	Test Results		
TACK-IT				
Acute				
Dermal				
LD50	Rabbit	23880.5977 mg/kg estimated		
Inhalation				
LC50	Mouse	43750 ppm, 7 Hours estimated		
	Rat	28125 ppm, 4 Hours estimated		
Oral				
LD50	Guinea pig	75 g/kg estimated		
	Mouse	75 g/kg estimated		
	Rabbit	18.2577 g/kg estimated		
	Rat	35000 mg/kg estimated		
Components	Species	Test Results		
Ethylene glycol monobutyl ethe				
Acute	· · · · · ·			
Dermal				
LD50	Rabbit	400 mg/kg		
Inhalation				
LC50	Mouse	700 ppm, 7 Hours		
	Rat	450 ppm, 4 Hours		
Oral				
LD50	Guinea pig	1.2 g/kg		
	Mouse	1.2 g/kg		
	Rabbit	0.32 g/kg		
	Rat	560 mg/kg		
Other				
LD50	Mouse	1130 mg/kg		
	Rabbit	280 mg/kg		
	Rat	340 mg/kg		
Isopropul Alcobol (CAS 67 63)		0-to hig/kg		
Isopropyl Alcohol (CAS 67-63- Acute	<i>。</i>			
Dermal				
LD50	Rabbit	12800 mg/kg		
Oral				
LD50	Mouse	3600 mg/kg		
	Rabbit	5.03 g/kg		
	Rat	4.7 g/kg		
Other	itat	<del>7</del> ./ y/vy		
Other LD50	Mouse	1509 mg/kg		
LD30	WUUSE	roos my/ky		

Components	Species	Test Results
	Rat	1099 mg/kg
* Estimates for product may	be based on additional component	nt data not shown.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	'n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to	o cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered	to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	<b>Evaluation of Carcinogenicity</b>	
US. OSHA Specifically Reg	tyl ether (CAS 111-76-2) ulated Substances (29 CFR 19	3 Not classifiable as to carcinogenicity to humans. 10.1001-1050)
Not listed.	This product is not expected t	o cause reproductive or developmental effects.
Reproductive toxicity	•	cause reproductive of developmental enects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Prolonged inhalation may be I	narmful.
Chronic effects	May be harmful if absorbed th	rough skin. Prolonged inhalation may be harmful.
		brbed through the skin in toxic amounts if contact is repeated and e not been observed in humans.

# 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude t possibility that large or frequent spills can have a harmful or damaging effect on the environm			
Product		Species	Test Results	
TACK-IT				
Aquatic				
Fish	LC50	Fish	64283.6563 mg/l, 96 hours estimated	
Components		Species	Test Results	
Ethylene glycol monobutyl	ether (CAS 111-	76-2)		
Aquatic				
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	
Isopropyl Alcohol (CAS 67-	63-0)			
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	
* Estimates for product ma	y be based on ac	lditional component data not shown.		
Persistence and degradability	No data is a	vailable on the degradability of this produc	t.	
Bioaccumulative potential				
Partition coefficient n-oct Ethylene glycol monobutyl Isopropyl Alcohol		<b>g Kow)</b> 0.83 0.05		
Mobility in soil	No data ava	ilable.		
Other adverse effects		verse environmental effects (e.g. ozone de idocrine disruption, global warming potentia		

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.	

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** 

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

# SARA 311/312 Hazardous No chemical

# SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

# **US state regulations**

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

# US. Massachusetts RTK - Substance List

Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0)

# US. New Jersey Worker and Community Right-to-Know Act

Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0)

# US. Pennsylvania Worker and Community Right-to-Know Law

Ethylene glycol monobutyl ether (CAS 111-76-2) Isopropyl Alcohol (CAS 67-63-0)

#### US. Rhode Island RTK

Isopropyl Alcohol (CAS 67-63-0)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name
----------------------	----------------

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)\*

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	11-24-2014
Version #	01
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.



# SAFETY DATA SHEET

# 1. Identification

Product identifier	TAKE DOWN (FRESH AND CLEAN)		
Other means of identification			
SDS number	545N-40B		
Product code	HIL00468		
Recommended use	General Cleaner		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Manufacturer			
Company name	HILLYARD INDUSTRIES		
Address	302 North Fourth St.		
Contact norson	St. Joseph, MO 64501 Regulatory Affairs		
Contact person Telephone number	(816) 233-1321 (Ext. 8285)		
Fax	(816) 383-8485		
E-mail	regulatoryaffairs@hillyard.com		
Emergency telephone #	(800) 424-9300		
	(Only in the event of chemical emergency involving a spill, leak, fire, exposure,		
	or accident involving chemicals.)		
2. Hazard(s) identification			
2. Hazard(s) identification Physical hazards	Not classified.		
( )	Not classified. Not classified.		
Physical hazards			
Physical hazards Health hazards	Not classified.		
Physical hazards Health hazards Environmental hazards	Not classified. Not classified.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards	Not classified. Not classified.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements	Not classified. Not classified. Not classified.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol	Not classified. Not classified. Not classified.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word	Not classified. Not classified. None. None.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word Hazard statement	Not classified. Not classified. None. None.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word Hazard statement Precautionary statement	Not classified. Not classified. Not classified. None. None. Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word Hazard statement Precautionary statement Prevention	Not classified. Not classified. Not classified. None. None. Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin. Observe good industrial hygiene practices.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word Hazard statement Precautionary statement Prevention Response	Not classified. Not classified. Not classified. None. None. Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin. Observe good industrial hygiene practices. Wash hands after handling.		
Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements Hazard symbol Signal word Hazard statement Precautionary statement Prevention Response Storage	Not classified. Not classified. Not classified. None. None. Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin. Observe good industrial hygiene practices. Wash hands after handling. Store away from incompatible materials.		

# 3. Composition/information on ingredients

**Mixtures** 

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Chemical name	Common name and synonyms	CAS number	%
Alcohols, C9-11, ethoxylated		68439-46-3	5 - < 10
Other components below reportable le	vels		90 - 100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	

# 6. Accidental release measures

	0. Accidental release meas				
	Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.			
Methods and materials for containment and cleaning up		This product is miscible in water.			
		Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.			
		Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.			
	Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.			
	7. Handling and storage				
	Precautions for safe handling	Observe good industrial hygiene practices.			
	Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).			
8. Exposure controls/personal protection		onal protection			
	Occupational exposure limits	No exposure limits noted for ingredient(s).			
	Biological limit values	No biological exposure limits noted for the ingredient(s).			
	Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.			
Individual protection measures, such as personal protective equipment Eve/face protection Wear safety glasses with side shields (or goggles).		such as personal protective equipment Wear safety glasses with side shields (or goggles).			
	Skin protection				
	Hand protection	For prolonged or repeated skin contact use suitable protective gloves.			
	Other	Not normally needed.			

Respiratory protection	No personal respiratory protective equipment normally required.
Thermal hazards	None known.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

s. I hysical and chemical properties			
Appearance	Pale-yellow, translucent liquid		
Physical state	Liquid.		
Form	Liquid.		
Color	Clear colorless or nearly colorless		
Odor	Fresh and clean		
Odor threshold	Not available		
рН	8 - 9		
Melting point/freezing point	Not applicable / Not available		
Initial boiling point and boiling range	209 °F (98.33 °C)		
Flash point	> 209.0 °F (> 98.3 °C) Tag Closed Cup		
Evaporation rate	< 1 (ethyl ether = 1)		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or explosive limits			
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	17.7 mm Hg		
Vapor density	0.6 AIR=1		
Relative density	1.004 at 77°F		
Solubility(ies)			
Solubility (water)	100 complete		
Partition coefficient (n-octanol/water)	Not available		
Auto-ignition temperature	Not available		
Decomposition temperature	Not available		
Viscosity	Not available		
Other information			
Density	8.35 lb/gal		
Percent volatile	91 - 92 %		
VOC (Weight %)	0 %		

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	No hazardous decomposition products are known.	

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.

Ingestion	Expected to be a low ingestion hazard.			
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.			
Information on toxicological eff	fects			
Acute toxicity	Not availab	e.		
Skin corrosion/irritation	Prolonged s	skin contact may cause temporary irritatio	in.	
Serious eye damage/eye irritation	Direct conta	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitizatio	n			
<b>Respiratory sensitization</b>	Not availab	e.		
Skin sensitization	This produc	t is not expected to cause skin sensitizati	ion.	
Germ cell mutagenicity		No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This produc	t is not considered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.	
US. OSHA Specifically Reg	ulated Substa	nces (29 CFR 1910.1001-1050)		
Not listed.				
Reproductive toxicity	This produc	t is not expected to cause reproductive o	r developmental effects.	
Specific target organ toxicity - single exposure	Not classifie	Not classified.		
Specific target organ toxicity - repeated exposure	Not classifie	ed.		
Aspiration hazard	Not available.			
12. Ecological information	n			
Ecotoxicity			ardous. However, this does not exclude the multiplication of the multiplication of the environment.	
Components		Species	Test Results	
Alcohols, C9-11, ethoxylated	(CAS 68439-4	l6-3)		
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales prome	las)  6 - 12 mg/l, 96 hours	
* Estimates for product may I	be based on a	dditional component data not shown.		
Persistence and degradability	No data is a	available on the degradability of this produ	uct.	
Bioaccumulative potential	No data ava	ailable.		
Mobility in soil	No data ava	ailable.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideratio	ons			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.			
Local disposal regulations	Dispose in a	accordance with all applicable regulations	3.	
Hazardous waste code		code should be assigned in discussion be mpany. None known.	tween the user, the producer and the waste	
			residues. This material and its container must	

Waste from residues / unused<br/>productsEmpty containers or liners may retain some product residues. This material and its container must<br/>be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may<br/>be sewered to a public owned treatment works (POTW) in compliance with applicable Federal,<br/>State, and local pretreatment requirements.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

# DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

# 15. Regulatory information

# **US** federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

# US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law Not listed.
- US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# International Inventories

# Country(s) or region Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# On inventory (yes/no)\*

Yes

# 16. Other information, including date of preparation or last revision

Issue date Version # HMIS® ratings	04-02-2015 01 Health: 1 Flammability: 0 Physical hazard: 0
Disclaimer	No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

T B E BUFFER CAROLINA BIOLOGICAL Revised: 05/15/08 Replaces: 11/09/07 Printed: 05/20/08

# **1. PRODUCT DESCRIPTION**

T B E Buffer Product Name: Product Code(s): 21-9025, 21-9027 150 mL, 500ml Size: Chemical Name: Tris Borate EDTA Product is a mixture, See section 2 CAS Number: See section 2 Formula: Electrophoresis Buffer Synonyms: Distributor: Carolina Biological Supply Company 2700 York Road Burlington, NC 27215 Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Boric acid (CAS# 10043-35-3) 5.5% Tris (hydroxymethyl) aminomethane (CAS# 77-86-1) 10.8% Sodium hydroxide (CAS# 1310-73-2) .10% Ethylenediaminetetraacetic acid (EDTA)disodium salt, 0.5M (CAS# 139-33-3) .7%

TLV and PEL units:

Boric Acid: ACGIH-TLV: 2 mg/m3 (TWA) (inhalable fraction listed under Borate Compounds, inorganic), 6 mg/m3 (STEL) (inhalable fraction listed under Borate Compounds, inorganic) ACGIH-TLV: 2 mg/m3 (Ceiling) OSHA-PEL: 2 mg/m3 (TWA)

# **<u>3. HAZARD IDENTIFICATION</u>**

Emergency Overview: This product is not considered hazardous under normal conditions of use. Potential Health Effects: Eyes: May cause irritation. Skin: May cause irritation. Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

# <u>4. FIRST AID MEASURES</u>

Emergency and First Aid Procedures: Eyes - Flush thoroughly with water. Seek medical attention if irritation persists. Skin - Wash exposed area with soap and water. Seek medical attention if irritation persists. Ingestion - In quantities normally handled, symptoms would not be expected. If swallowed, if conscious, give water. Seek medical attention if gastrointestinal irritation or other unexpected symptoms develop. Inhalation - Not expected to present a problem. However, if the exposed person is having trouble breathing, remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has

stopped. Keep person warm and quiet, and get medical attention.

# 5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No information available

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NFPA Rating: None assigned Extinguisher Media:

Use dry chemical, CO2 or appropriate foam. Flammable Limits in Air % by Volume: No information available Autoignition Temperature: No information available Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None expected

## 6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

# 7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store tightly closed at room temperature.

# 8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No
Protective Gloves:	

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times. Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

# 9. PHYSICAL DATA

```
Molecular Weight: No information available
Melting Point: No information available
                 No information available
Boiling Point:
Vapor Pressure:
                 No information available
Vapor Density(Air=1): No information available
                           No information available
Specific Gravity(H2O=1):
Percent Volatile by Volume: No information available
Evaporation Rate(H2O=1):
                           No information available
Solubility in Water:
                            Complete
                            Colorless liquid, odorless
Appearance and Odor:
```

# <u>10. REACTIVITY DATA</u>

Stability: Stable

Conditions to Avoid: No information available Incompatibility(Materials to Avoid): Water reactive materials Hazardous Decomposition Products: No information available Hazardous Polymerization: Will not occur

T B E BUFFER CAROLINA BIOLOGICAL Revised: 05/15/08 Replaces: 11/09/07 Printed: 05/20/08

# **11. TOXICITY DATA**

Toxicity Data: Boric Acid - Oral Rat LD50: 2660 mg/kg Tris - Oral Rat LD50: 5900 mg/kg Sodium Hydroxide - Dermal Rabbit LD50: 1350 mg/kg EDTA - Oral Rat LD50: 1658 mg/kgEffects of Overexposure: Acute: See section 3 Chronic: Boric acid and Ethylenediaminetetraacetic acid (EDTA) disodium salt 0.5M: Mutation and reproductive data cited, not listed as causing cancer by IARC, NTP, or OSHA. Sodium hydroxide, Mutation data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: No information available Target Organs: No information available

Primary Route(s) of Entry: Ingestion, skin

# **<u>12. ECOLOGICAL DATA</u>**

EPA Waste Numbers: None

#### **13. DISPOSAL INFORMATION**

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

# <u>14. TRANSPORT INFORMATION</u>

Not regulated

# **15. REGULATORY INFORMATION**

EPA TSCA Status: On TSCA Inventory Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA EHS	SARA Chemi	Sec. 313 cals	CERCLA	RCRA
Product or	Sec. 302	Name	Chemical	Sec. 103	Sec.
Components	TPQ	List	Category	RQ lbs.	261.33
·					
_ Boric acid	No	No	No	No	No
Tris (hydroxyme	thyl) aminome	thane			
	No	No	No	No	No
Sodium hydroxide	e No	No	No	1000	No
Ethylenediamine	tetraacetic a	cid (EDT	A),disodium sa	alt	
	No	No	No	No	No

#### **16. ADDITIONAL INFORMATION**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material. Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists CAS Number..Chemical Abstracts Service Number

T B E BUFFER CAROLINA BIOLOGICAL Revised: 05/15/08 Replaces: 11/09/07 Printed: 05/20/08

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act DOT.....U.S. Department of Transportation IARC.....International Agency of Research on Cancer mppcf....million particles per cubic foot N/A....Not Available NTP.....Not Available NTP.....National Toxicology Program OSHA.....Occupational Safety and Health Administration PEL.....Permissible Exposure Limit ppm.....parts per million RCRA.....Resource Conservation and Recovery Act SARA.....Superfund Amendments and Reauthorization Act TLV.....Threshold Limit Value TSCA.....Toxic Substances Control Act



Print Date: 03-12-2015

TEC SS ADHESIVE REMOVER 835015PM

# SAFETY DATA SHEET

# REVISION DATE: 02-12-2015

PERSEDES: 11-28-2012

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### **PRODUCT INFORMATION**

PRODUCT: PRODUCT DESCRIPTION: INTENDED USE: PRODUCT IDENTIFIER: TEC SS ADHESIVE REMOVER Cleaner 835015PM

# **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Hazard Symbols:** 



GHS Signal Word: GHS Classification:	Danger Skin Corrosion/Irritation Category 1B; Serious Eye Damage/Eye Irritation Category 1; Acute Toxicity - Dermal Category 4
GHS Hazard Phrases:	Harmful in contact with skin.; Causes severe skin burns and eye damage.; Causes serious eye damage.
<b>GHS Precautions:</b>	
Safety Precautions:	Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific measures (see on this label). Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Butoxyethanol, 2-	111-76-2	10 - 30	Acute Tox. 3; H311	
			Acute Tox. 4; H302	
			Eye Irrit. 2; H319	

SUPERSEDES:



TEC SS ADHESIVE REMOVER 835015PM

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			Skin Irrit. 2; H315	
Ethanol amine	141-43-5	10 - 30	Acute Tox. 3; H311	
			Acute Tox. 4; H302	
			Acute Tox. 4; H332	
			Skin Corr. 1B; H314	

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

# **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

## **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	There is a possibility of pressure buildup in closed containers
	when heated. Water spray may be used to cool the containers.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-
	contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Nitrogen containing gases

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.
METHODS FOR CLEAN-UP:	Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 7: HANDLING AND STORAGE**

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area.

Storage: Store in a cool, dry place.Protect from freezing Consult the Technical Data Sheet for specific storage instructions.



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TEC SS ADHESIVE REMOVER 835015PM

SAFETY DATA SHEET

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Butoxyethanol, 2-		20 ppm TWA	50 ppm TWA; 240 mg/m3 TWA Skin absorption may potentially contribute to the overall exposure to this material.
Ethanol amine		3 ppm TWA 6 ppm STEL	3 ppm TWA; 6 mg/m3 TWA

# **ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.
EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.
GLOVES:	Nitrile
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Colorless
ODOR:	Solvent Mild
ODOR THRESHOLD:	Not established
pH:	12.5
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	8.26
SPECIFIC GRAVITY:	0.990
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established



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TEC SS ADHESIVE REMOVER 835015PM

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DECOMPOSITION TEMPERATURE: VISCOSITY: SOLIDS (% by weight): VOC, weight percent VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined)

Not established No data available. 0.2 Not determined 217g/liter of material

# **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Nitrogen

Stable under normal conditions. Not established Will not occur. containing gases

# SECTION 11: TOXICOLOGICAL INFORMATION

#### **Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Butoxyethanol, 2-	ORAL LD50 RAT 470 MG/KG
	INHALATION LC50-4H RAT 450.00 PPM
	DERMAL LD50 RABBIT 220.00 MG/KG
Ethanol amine	ORAL LD50 RAT 1,720 MG/KG
	DERMAL LD50 RABBIT 1.00 ML/KG

#### This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eve damage / irritation :Can cause severe irritation. Eve contact may result in corneal injury. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Possible cancer hazard based on tests with laboratory animals.

Reproductive toxicity: Contains a substance that is a possible reproductive hazard based on animal studies.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Blood Hemato System

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Blood disorders (like anemia)

#### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

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TEC SS ADHESIVE REMOVER 835015PM

# SAFETY DATA SHEET

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Butoxyethanol, 2-	Acute Toxicity (Fish): 96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr
	LC50 Lepomis macrochirus: 2950 mg/L
	Acute Toxicity (Daphnia): 24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr
	EC50 Daphnia magna: >1000 mg/L
	Acute Toxicity (Algae): Not established
Ethanol amine	Acute Toxicity (Fish): 96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96
	Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 300
	- 1000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 114 - 196 mg/L [static]; 96 Hr
	LC50 Oncorhynchus mykiss: >200 mg/L [flow-through]
	Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 65 mg/L
	Acute Toxicity (Algae): 72 Hr EC50 Desmodesmus subspicatus: 15 mg/L

# SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended as industry best practice. Consult state, local or provincial authorities for more restrictive requirements. **SECTION 14: TRANSPORT INFORMATION** 

Consult Bill of Lading for transportation information.

US DOT:	UN1760, CORROSIVE LIQUIDS, N.O.S. (ETHANOLAMINE), 8, III [HOWEVER, MAY BE SHIPPED AS LIMITED QUANTITY IF IN
	CONTAINERS 5 LITERS OR LESS
IATA:	UN1760, CORROSIVE LIQUIDS, N.O.S. (ETHANOLAMINE), 8, III
	[HOWEVER, MAY BE SHIPPED AS LIMITED QUANTITY IF IN
	CONTAINERS 5 LITERS OR LESS]

#### **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt
	from DSL requirements.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product
	cannot be imported into Europe unless the REACH requirements are
	met.
AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of
	Chemical Substances requirements.
JAPAN ENCS:	This product is in compliance with the Japanese Existing and New
	Chemical Substances requirements.
KOREAN TCCL:	This product is in compliance with the Korean Existing Chemicals List
	requirements.
PHILIPPINES:	This product is in compliance with the Philippine Inventory of
FHILIFFINES.	1 1 11 2
	Chemicals and Chemical Substances requirements.
CHINA IECSC INVENTORY:	This product is in compliance with the Inventory of Existing Chemical
	Substances in China (IECSC) requirements.
If you need more information about	it the inventory status of this product call 651-236-5858

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.





TEC SS ADHESIVE REMOVER 835015PM

# SAFETY DATA SHEET

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
Glycol ethers	111-76-2	10 - 30

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System. D2A D2B D1A

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STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986: Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent	
2,2'-Iminodiethanol	(Carcinogen)	111-42-2	0.001 - 0.01	

# Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

## **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 02-12-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



Print Date: 06-08-2015

# SAFETY DATA SHEET

TEC RTU GROUT - PEARL 836900PM

# REVISION DATE: 04-17-2015

SUPERSEDES: 09-03-2013

#### SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### **PRODUCT INFORMATION**

PRODUCT:
PRODUCT DESCRIPTION:
INTENDED USE:
PRODUCT IDENTIFIER:

**TEC RTU GROUT - PEARL** Sanded polymer grout Adhesive 836900PM

# **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Hazard Symbols:** 

. . . .



GHS Signal Word:	Warning
GHS Classification:	Skin Sensitisation Category 1A
<b>GHS Hazard Phrases:</b>	May cause an allergic skin reaction.
<b>GHS Precautions:</b>	
Safety Precautions:	Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing
	should not be allowed out of the workplace. Wear protective gloves/protective
	clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:
	Get medical advice/attention. Wash contaminated clothing before reuse.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international
-	regulation for hazardous wastes.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Crystalline silica	14808-60-7	30 - 50	Carc. 1A; H350 STOT RE 1; H372	* (see below)
Ethylene glycol	107-21-1	1 - 5	Acute Tox. 4; H302	
Titanium dioxide	13463-67-7	0.1 - 1	Carc. 2; H351	* (see below)
Hexahydro-1,3,5-tris(2- hydroxyethyl)-S-triazine	4719-04-4	0.1 - 1	Acute Tox. 4; H302 Skin Sens. 1; H317	

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.



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Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

# **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eye with water for 20 minutes. Get medical attention.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

#### **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	
	when heated. Water spray may be used to cool the containers.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-
	contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide

# SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in
	Section 8 of this MSDS.
METHODS FOR CLEAN-UP:	Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 7: HANDLING AND STORAGE**

Handling:	No special handling instructions due to toxicity. Avoid breathing material. This product contains an ingredient that may release formaldehyde when in
	contact with strong acids.
<b>C</b> .	

Store in a cool, dry place. Protect from freezing Storage: Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)



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# TEC RTU GROUT - PEARL 836900PM

# Print Date: 06-08-2015

# SAFETY DATA SHEET

Ethylene glycol		TWA Not established 100 mg/m3 Ceiling (aerosol only)	Not established
Titanium dioxide	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

# **ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.
EYE PROTECTION:	Wear safety glasses when handling this product.
SKIN PROTECTION:	Not normally required. Wear chemically resistant gloves to prevent prolonged or repeated contact.
GLOVES:	Not normally required. Use nitrile gloves if conditions warrant.
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with dust/mist filter. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Semi-solid
COLOR:	Off-white
ODOR:	Mild Sweet
ODOR THRESHOLD:	Not established
pH:	9.3
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	12.80
SPECIFIC GRAVITY:	1.520
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	87.5
VOC, weight percent	2.70
VOC, U.S. EPA Method 24, less water and exempt	28.1g/liter of material
solvents (theoretically determined)	

# SECTION 10: STABILITY AND REACTIVITY



Print Date: 06-08-2015

**STABILITY:** 

**TEC RTU GROUT - PEARL** 836900PM

# SAFETY DATA SHEET

Stable under normal conditions. Not established Will not occur. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

# SECTION 11: TOXICOLOGICAL INFORMATION

#### **Component Toxicity / Toxicology Data:**

CHEMICAL INCOMPATIBILITY:

HAZARDOUS POLYMERIZATION:

component rements, r remeters g, z www			
COMPONENT NAME	LD50/LC50		
Crystalline silica	ORAL LD50 RAT 500 MG/KG		
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG		
Ethylene glycol	ORAL LD50 RAT 4,000 MG/KG		

#### This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation :Can cause minor irritation, tearing and reddening.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: Contains a substance(s) that is a possible reproductive system hazard based on high dose tests with laboratory animals.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs Central nervous system Kidneys Liver

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease, Liver disease, Kidney disease

#### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Ethylene glycol	Acute Toxicity (Fish): 96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 14 - 18 mL/L [static]; 96 Hr LC50 Lepomis macrochirus: 27540 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 40000 - 60000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static] Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 46300 mg/L Acute Toxicity (Algae): 96 Hr EC50 Pseudokirchneriella subcapitata: 6500 - 13000
	mg/L



**TEC RTU GROUT - PEARL** 

# SAFETY DATA SHEET

836900PM

## **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:	NOT REGULATED
IATA:	NOT REGULATED

#### **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	This product contains a component that is not on the DSL. If you are
	the importer of this product into Canada, contact H.B. Fuller for
	chemical tracking and notification information.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product
	cannot be imported into Europe unless the REACH requirements are
	met.
AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of
	Chemical Substances requirements.
KOREAN TCCL:	This product is in compliance with the Korean Existing Chemicals List
	requirements.
PHILIPPINES:	This product is in compliance with the Philippine Inventory of
	Chemicals and Chemical Substances requirements.
CHINA IECSC INVENTORY:	This product is in compliance with the Inventory of Existing Chemical
	Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%	
Ethylene glycol	107-21-1	1 - 5	

# STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent	
Quartz	(Carcinogen)	14808-60-7	30 - 50	
Titanium dioxide	(Carcinogen)	13463-67-7	0.1 - 1	
Formaldehyde	(Carcinogen)	50-00-0	0.001 - 0.01	
Carbon black	(Carcinogen)	1333-86-4	0.001 - 0.01	



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# **TEC RTU GROUT - PEARL**

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Nickel	(Carcinogen)		< 10 ppm
Lead	(Carcinogen)	7439-92-1	< 10 ppm
Methanol	(Developmental toxin)	67-56-1	< 10 ppm
Lead	(Developmental toxin)	7439-92-1	< 10 ppm
Lead	(Female reproductive toxin)	7439-92-1	< 10 ppm
Lead	(Male reproductive toxin)	7439-92-1	< 10 ppm

#### Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's. tert-Octylphenol, ethoxylated

# **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 04-17-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



Print Date: 03-12-2015

# SAFETY DATA SHEET

REVISION DATE: 02-13-2015

SUPERSEDES: 10-30-2012

# SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

# **PRODUCT INFORMATION**

PRODUCT:	SKILL SET SLU
PRODUCT DESCRIPTION:	Cement
INTENDED USE:	Adhesive
PRODUCT IDENTIFIER:	829145PM

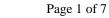
# **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

GHS Hazard Symbols:	
GHS Signal Word:	Danger
GHS Classification:	Skin Corrosion/Irritation Category 1B; Serious Eye Damage/Eye Irritation Category 1; Skin Sensitisation Category 1; Carcinogenicity Category 1A; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1
GHS Hazard	Causes severe skin burns and eye damage.; May cause an allergic skin reaction.; Causes
Phrases:	serious eye damage.; May cause cancer.; Causes damage to organs through prolonged or repeated exposure.
<b>GHS Precautions:</b>	
Safety Precautions: First Aid Measures:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with
	plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage: Disposal:	Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.



SKILL SET SLU 829145PM

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SKILL SET SLU 829145PM

# SAFETY DATA SHEET

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Crystalline silica	14808-60-7	30 - 50	Carc. 1A; H350	* (see below)
•			STOT RE 1; H372	
Alumina cement	65997-16-2	5 - 10	Eye Dam. 1; H318	
			Skin Irrit. 2; H315	
Calcium oxide, CaO	1305-78-8	5 - 10	Acute Tox. 4; H302	* (see below)
			Eye Dam. 1; H318	
			Skin Irrit. 2; H315	
			STOT SE 3; H335	
Calcium sulfate, hemihydrate	26499-65-0	1 - 5	Eye Irrit. 2; H319	* (see below)
			Skin Irrit. 2; H315	
			STOT SE 3; H335	
Portland cement	65997-15-1	1 - 5	Eye Dam. 1; H318	* (see below)
			Skin Irrit. 2; H315	
			Skin Sens. 1; H317	
			STOT SE 3; H335	
Potassium oxide	12136-45-7	1 - 5	Skin Corr. 1B; H314	
Sulfur trioxide	7446-11-9	1.5	A outo Toy. 2: 11220	
Sultur trioxide	/440-11-9	1 - 5	Acute Tox. 2; H330	
			Eye Dam. 1; H318	
			Skin Corr. 1A; H314	
0.12 1.1	1010 50 0	1.7	STOT SE 3; H335	
Sodium oxide	1313-59-3	1 - 5	Skin Corr. 1B; H314	

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

#### **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately. Do not give anything by mouth to an unconscious person.

#### **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: UNUSUAL FIRE AND EXPLOSION HAZARDS:	Use water spray, foam, dry chemical or carbon dioxide. Material will not burn.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self- contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Aluminum oxide Sulfur containing gases

# SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special



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	circumstances created by the spill including; the material spilled, the
	quantity of the spill, the area in which the spill occurred.
METHODS FOR CLEAN-UP:	Avoid creating dusts. Eliminate ignition sources. If a vacuum is used,
	ensure that the material is wetted or otherwise treated so an explosive
	dust atmosphere is not created within the vacuum.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 7: HANDLING AND STORAGE**

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid breathing material.

Storage: Store in a cool, dry place. Consult the Technical Data Sheet for specific storage instructions.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))
Aluminum oxide	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium oxide, CaO	* (see below)	2 mg/m3 TWA	5 mg/m3 TWA
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Iron oxide	* (see below)	5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA (as fume)
Calcium sulfate, hemihydrate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Portland cement	* (see below)	1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium sulfate	* (see below)	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Magnesium Oxide	* (see below)	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total particulate) (as fume)

# **ENGINEERING CONTROL METHODS:**

VENTILATION:Use local exhaust ventilation or other engineering controls to<br/>minimize exposures.EYE PROTECTION:Wear safety glasses with side shields when handling this product.<br/>Wear additional eye protection such as chemical splash goggles<br/>and/or face shield when the possibility exists for eye contact with<br/>splashing or spraying liquid, or airborne material. Have an eye wash



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SKIN PROTECTION: GLOVES:	station available. Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Nitrile
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with dust/mist filter. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Solid
COLOR:	Gray
ODOR:	Odorless
ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	11.20
SPECIFIC GRAVITY:	1.340
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	100.0
VOC, weight percent	0.00

# SECTION 10: STABILITY AND REACTIVITY

STABILITY: CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION:

Stable under normal conditions. Not established Will not occur. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Aluminum oxide Sulfur containing gases

# SECTION 11: TOXICOLOGICAL INFORMATION

# **Component Toxicity / Toxicology Data:**

· · · · · · · · · · · · · · · · · · ·	
COMPONENT NAME	LD50/LC50
Crystalline silica	ORAL LD50 RAT 500 MG/KG
Fly ash	ORAL LD50 RAT > 2,000 MG/KG
Aluminum oxide	ORAL LD50 RAT > 5,000 MG/KG



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Calcium oxide, CaO	ORAL LD50 RAT 500 MG/KG	
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG	
Iron oxide	ORAL LD50 RAT > 10,000 MG/KG	
Sulfur trioxide	INHALATION LC50-4H RAT 0.38 MG/L	
Carbon, activated	ORAL LD50 RAT > 10,000 MG/KG	
Calcium sulfate	ORAL LD50 RAT > 3,000 MG/KG	

#### This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: May cause respiratory irritation.

Specific target organ toxicity-repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

#### SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Calcium oxide, CaO	Acute Toxicity (Fish): 96 Hr LC50 Cyprinus carpio: 1070 mg/L [static]
	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): Not established
Calcium sulfate	Acute Toxicity (Fish): 96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static]; 96 Hr
	LC50 Pimephales promelas: >1970 mg/L [static]
	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): Not established

# SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements.



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# SAFETY DATA SHEET

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:	NOT REGULATED
IATA:	NOT REGULATED

#### **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt
	from DSL requirements.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product
	cannot be imported into Europe unless the REACH requirements are
	met.
AUSTRALIA AICS:	This product contains a component that is not on the Australian
	Inventory (AICS).

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

 Chemical Name
 CAS#

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System. D2A D2B

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	30 - 50
Titanium dioxide	(Carcinogen)	13463-67-7	0.01 - 0.1
Acetaldehyde	(Carcinogen)	75-07-0	< 10 ppm
Chromium VI	(Carcinogen)		< 10 ppm
Nickel	(Carcinogen)		< 10 ppm
Lead compounds	(Carcinogen)		< 10 ppm
Cadmium compounds	(Carcinogen)		< 10 ppm
Lithium carbonate	(Developmental toxin)	554-13-2	0.01 - 0.1
Methanol	(Developmental toxin)	67-56-1	< 10 ppm

#### Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

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# SAFETY DATA SHEET

#### **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 02-13-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



# MATERIAL SAFETY DATA SHEET

#### REVISION DATE: 11-01-2013

SUPERSEDES: 05-07-2013

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION PRODUCT NUMBER: PRODUCT DESCRIPTION: PRODUCT IDENTIFIER:

DESIGN COLOR TINTABLE GROUT Cement 836137PM

## SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW PHYSICAL STATE: Solid COLOR: Opaque White ODOR: Odorless Moderate eye irritant. Causes skin irritation. Moderate respiratory tract irritant. Harmful if swallowed. Cancer hazard.

#### POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Can cause moderate irritation, tearing and reddening.

SKIN: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. INHALATION: Can cause moderate respiratory irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Nasal perforation is possible from a single large or repeated smaller inhalation overexposures.

Overexposure to crystalline silica may cause silicosis. Overexposure to iron oxide dust/fume may cause siderosis. Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination. Overexposure to nickel dust may cause perforated nasal septum, chest pain, coughing, lung disease, cyanosis, and blood disorders.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Severely irritating to mouth, throat, and stomach.

LONG-TERM (CHRONIC) HEALTH EFFECTS TARGET ORGAN(S): Lungs Central nervous system Skin

**REGULATED CARCINOGEN STATUS:** 

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

Crystalline silica

Titanium dioxide

Nickel compounds

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease; Skin disease including eczema and sensitization



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT
Calcium carbonate	471-34-1	30 - 50
Crystalline silica	14808-60-7	30 - 50
Portland cement	65997-15-1	10 - 30
Iron oxide	1309-37-1	1 - 5
Calcium sulfate	7778-18-9	1 - 5
Calcium oxide, CaO	1305-78-8	1 - 5
Magnesium Oxide	1309-48-4	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1
Nickel compounds		0.1 - 1

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

## **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

#### **SECTION 5: FIRE FIGHTING MEASURES**

FLASH POINT:	Non flammable
AUTOIGNITION TEMPERATURE:	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
UPPER EXPLOSIVE LIMIT (% in air):	Not established
EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Material will burn in a fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self- contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Sulfur containing gases

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity



# MATERIAL SAFETY DATA SHEET

CLEAN-UP:of the spill, the area in which the spill occurred.Avoid creating dusts. Cover material with absorbent and moisten and collect<br/>for disposal.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 7: HANDLING AND STORAGE**

Handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid breathing material. This product contains an ingredient that may release formaldehyde at heated cure temperatures.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.
GLOVES:	Nitrile
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with dust/mist filter. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).
VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.

## EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	OSHA PEL	
Calcium carbonate	Not established	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	
Crystalline silica	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))	
Portland cement	1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	ing 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	
Iron oxide	5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA (as fume)	
Calcium sulfate	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	
Calcium oxide, CaO	2 mg/m3 TWA	5 mg/m3 TWA	
Magnesium Oxide	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total particulate) (as fume)	



# MATERIAL SAFETY DATA SHEET

Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	
Nickel compounds	0.1 mg/m3 TWA (inhalable fraction, as Ni, soluble inorganic compounds); 0.1 mg/m3 TWA (inhalable fraction, as Ni, insoluble inorganic compounds)	1 mg/m3 TWA (as Ni)	

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
COLOR:	Opaque White
ODOR:	Odorless
ODOR THRESHOLD:	Not established
WEIGHT PER GALLON (lbs.):	10.98
SPECIFIC GRAVITY:	1.320
SOLIDS (% by weight):	100.0
	Not applicable
pH:	Not established
FLASH POINT:	Non flammable
BOILING POINT (deg. C):	Not established
FREEZING/MELTING POINT (deg. C):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
EVAPORATION RATE:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
VOC, weight percent	0.00

## SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide Sulfur containing
	gases

# SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT	LD50 ORAL	LC50 INHALATION	LD50 DERMAL
Calcium carbonate	Oral LD50 Rat = 6450 mg/kg		
Crystalline silica	Not established		
Portland cement	Not established		
Iron oxide	Not established		
Calcium sulfate	Not established		
Calcium oxide, CaO	Not established		
Magnesium Oxide	Not established		
Titanium dioxide	Not established		
Nickel compounds	Not established		

TOXICOLOGY SUMMARY: No additional health information available.



## **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.

#### SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements.

# SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.DOT:NOT REGULATEDIATA:NOT REGULATED

## **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt from
	DSL requirements.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product cannot be
	imported into Europe unless the REACH requirements are met.
AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of Chemical
	Substances requirements.
KOREAN TCCL:	This product is in compliance with the Korean Existing Chemicals List
	requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-651-5498 x4 (Canada) to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

 Chemical Name
 %

 Nickel compounds
 0.1 - 1

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System. D2A D2B

## STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	30 - 50
Titanium dioxide	(Carcinogen)	13463-67-7	0.1 - 1
Nickel	(Carcinogen)		0.1 - 1
Lead compounds	(Carcinogen)		< 10 ppm
Chromium VI	(Carcinogen)		< 10 ppm
Methanol	(Developmental toxin)	67-56-1	< 10 ppm



#### **SECTION 16: ADDITIONAL INFORMATION**

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



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# SKILL SET FAST SETTING MORTAR 829154PM

# SAFETY DATA SHEET

# REVISION DATE: 04-14-2015

SUPERSEDES: 03-26-2013

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### **PRODUCT INFORMATION**

PRODUCT: PRODUCT DESCRIPTION: INTENDED USE: PRODUCT IDENTIFIER: SKILL SET FAST SETTING MORTAR Cement Adhesive 829154PM

# **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

GHS Hazard Symbols:	
GHS Signal Word:	Danger
GHS Classification:	Serious Eye Damage/Eye Irritation Category 1; Skin Sensitisation Category 1; Carcinogenicity Category 1A; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1; Skin Corrosion/Irritation Category 2; Acute Toxicity - Inhalation Dust / Mist Category 4
<b>GHS Hazard</b>	Causes skin irritation.; May cause an allergic skin reaction.; Causes serious eye damage.;
Phrases:	Harmful if inhaled.; May cause cancer.; Causes damage to organs through prolonged or repeated exposure.
<b>GHS Precautions:</b>	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage: Disposal:	Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.



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# SKILL SET FAST SETTING MORTAR 829154PM

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	PERCENT	Classification	Note
14808-60-7	50 - 70	Carc. 1A; H350	* (see below)
		STOT RE 1; H372	
65997-16-2	10 - 30	Eye Dam. 1; H318	
		Skin Irrit. 2; H315	
65997-15-1	10 - 30	Eye Dam. 1; H318	* (see below)
		Skin Irrit. 2; H315	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
1305-78-8	1 - 5	Acute Tox. 4; H302	* (see below)
		Eye Dam. 1; H318	
		Skin Irrit. 2; H315	
		STOT SE 3; H335	
12136-45-7	1 - 5	Skin Corr. 1B; H314	
7446-11-9	1 - 5	Acute Tox. 2; H330	
		Eye Dam. 1; H318	
		Skin Corr. 1A; H314	
		STOT SE 3; H335	
1313-59-3	1 - 5	Skin Corr. 1B; H314	
	14808-60-7           65997-16-2           65997-15-1           1305-78-8           12136-45-7           7446-11-9	14808-60-7         50 - 70           65997-16-2         10 - 30           65997-15-1         10 - 30           1305-78-8         1 - 5           12136-45-7         1 - 5           7446-11-9         1 - 5	14808-60-7         50 - 70         Carc. 1A; H350 STOT RE 1; H372           65997-16-2         10 - 30         Eye Dam. 1; H318 Skin Irrit. 2; H315           65997-15-1         10 - 30         Eye Dam. 1; H318 Skin Irrit. 2; H315           10 - 30         Eye Dam. 1; H318 Skin Irrit. 2; H315           10 - 30         Eye Dam. 1; H318 Skin Irrit. 2; H315           10 - 30         Eye Dam. 1; H318           1305-78-8         1 - 5           12136-45-7         1 - 5           12136-45-7         1 - 5           1 - 5         Skin Corr. 1B; H314           7446-11-9         1 - 5           1 - 5         Acute Tox. 2; H330           Eye Dam. 1; H318           Skin Corr. 1A; H314           STOT SE 3; H335

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

#### **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist. IF SWALLOWED: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

#### **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: UNUSUAL FIRE AND EXPLOSION HAZARDS:	Use water spray, foam, dry chemical or carbon dioxide. Material will burn in a fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self- contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Aluminum oxide Sulfur containing gases

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:Exposure to the spilled material may be irritating or harmful. Follow<br/>personal protective equipment recommendations found in Section 8 of<br/>this MSDS. Additional precautions may be necessary based on special<br/>circumstances created by the spill including; the material spilled, the<br/>quantity of the spill, the area in which the spill occurred.METHODS FOR CLEAN-UP:Avoid creating dusts. Eliminate ignition sources. If a vacuum is used,



SKILL SET FAST SETTING MORTAR 829154PM

# SAFETY DATA SHEET

ensure that the material is wetted or otherwise treated so an explosive dust atmosphere is not created within the vacuum.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# SECTION 7: HANDLING AND STORAGE

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid breathing material.

Storage:Store in a cool, dry place.Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))
Diatomaceous earth	* (see below)	No data available.	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)
Portland cement	* (see below)	1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Aluminum oxide	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium sulfate	* (see below)	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium oxide, CaO	* (see below)	2 mg/m3 TWA	5 mg/m3 TWA
Iron oxide	* (see below)	5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA (as fume)
Magnesium Oxide	* (see below)	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total particulate) (as fume)
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

# **ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.
EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.



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GLOVES:

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	SAFETY DATA SHEET
	Nitrile
TION:	Respiratory protection may be required to avoid overexposure when
	handling this product. Use a respirator if general room ventilation is

**RESPIRATORY PROTECT** not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with dust/mist filter. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
COLOR:	Gray
ODOR:	Odorless
ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	11.20
SPECIFIC GRAVITY:	1.340
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	100.0
VOC, weight percent	0.00

#### SECTION 10: STABILITY AND REACTIVITY

STABILITY: CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION:

Stable under normal conditions. Not established Will not occur. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Aluminum oxide Sulfur containing gases

# SECTION 11: TOXICOLOGICAL INFORMATION

# **Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Crystalline silica	ORAL LD50 RAT 500 MG/KG
Fly ash	ORAL LD50 RAT > 2,000 MG/KG
Aluminum oxide	ORAL LD50 RAT > 5,000 MG/KG
Calcium sulfate	ORAL LD50 RAT > 3,000 MG/KG
Calcium oxide, CaO	ORAL LD50 RAT 500 MG/KG



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# SAFETY DATA SHEET

Iron oxide	ORAL LD50 RAT > 10,000 MG/KG	
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG	
Sulfur trioxide	INHALATION LC50-4H RAT 0.38 MG/L	

## This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: May cause respiratory irritation.

Specific target organ toxicity-repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

## SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Calcium sulfate	Acute Toxicity (Fish): 96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static]; 96 Hr
	LC50 Pimephales promelas: >1970 mg/L [static]
	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): Not established
Calcium oxide, CaO	Acute Toxicity (Fish): 96 Hr LC50 Cyprinus carpio: 1070 mg/L [static]
	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): Not established

#### SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements. **SECTION 14: TRANSPORT INFORMATION** 

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED





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IATA:

NOT REGULATED

#### **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt
	from DSL requirements.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product
	cannot be imported into Europe unless the REACH requirements are
	met.
AUSTRALIA AICS:	This product contains a component that is not on the Australian
	Inventory (AICS).
EUROPEAN REACH:	from DSL requirements. As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met. This product contains a component that is not on the Australian

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations. **Chemical Name** CAS# %

### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	50 - 70
Titanium dioxide	(Carcinogen)	13463-67-7	0.01 - 0.1
Chromium VI	(Carcinogen)		< 10 ppm
Nickel	(Carcinogen)		< 10 ppm
Lead compounds	(Carcinogen)		< 10 ppm
Cadmium compounds	(Carcinogen)		< 10 ppm
Lithium carbonate	(Developmental toxin)	554-13-2	0.01 - 0.1
Methanol	(Developmental toxin)	67-56-1	0.001 - 0.01

Substances of Very High Concern (SVHC) Content: Unless listed below, this product does not contain SVHC's.

# **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 04-14-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0



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# SAFETY DATA SHEET

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

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#### SAFETY DATA SHEET

## REVISION DATE: 06-10-2015

SUPERSEDES: 11-30-2012

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

## **PRODUCT INFORMATION**

PRODUCT: PRODUCT DESCRIPTION: INTENDED USE: PRODUCT IDENTIFIER: TEC SS SKIMCOAT AND PATCH Underlayment Adhesive 835026PM

# **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Symbols:	
GHS Signal Word:	Danger
GHS Classification:	Serious Eye Damage/Eye Irritation Category 1; Skin Sensitisation Category 1; Carcinogenicity Category 1A; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1; Skin Corrosion/Irritation Category 2; Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
GHS Hazard Phrases:	Causes skin irritation.; May cause an allergic skin reaction.; Causes serious eye damage.; May cause respiratory irritation.; May cause cancer.; Causes damage to organs through prolonged or repeated exposure.
<b>GHS Precautions:</b>	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage: Disposal:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.



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#### SAFETY DATA SHEET

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Alumina cement	65997-16-2	10 - 30	Eye Dam. 1; H318	
			Skin Irrit. 2; H315	
Portland cement	65997-15-1	10 - 30	Eye Dam. 1; H318	* (see below)
			Skin Irrit. 2; H315	
			Skin Sens. 1; H317	
			STOT SE 3; H335	
Calcium sulfate, hemihydrate	26499-65-0	5 - 10	Eye Irrit. 2; H319	* (see below)
•			Skin Irrit. 2; H315	
			STOT SE 3; H335	
Attapulgite	12174-11-7	1 - 5	Carc. 2; H351	* (see below)
Crystalline silica	14808-60-7	1 - 5	Carc. 1A; H350	* (see below)
			STOT RE 1; H372	

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

## **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist. IF SWALLOWED: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

#### **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: UNUSUAL FIRE AND EXPLOSION HAZARDS:	Use water spray, foam, dry chemical or carbon dioxide. Material will not burn.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self- contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Sulfur containing gases

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	Exposure to the spilled material may be irritating or harmful. Follow
	personal protective equipment recommendations found in Section 8 of
	this MSDS. Additional precautions may be necessary based on special
	circumstances created by the spill including; the material spilled, the
	quantity of the spill, the area in which the spill occurred.
METHODS FOR CLEAN-UP:	Avoid creating dusts. Cover material with absorbent and moisten and
	collect for disposal.



# TEC SS SKIMCOAT AND PATCH 835026PM

#### SAFETY DATA SHEET

## Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## SECTION 7: HANDLING AND STORAGE

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area.

Storage:Store in a cool, dry place.Consult the Technical Data Sheet for specific storage instructions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Portland cement	* (see below)	1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium sulfate, hemihydrate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))
Cellulose	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium sulfate	* (see below)	10 mg/m3 TWA (inhalable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

# **ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.
EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with
	splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.
GLOVES:	Nitrile
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.



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Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: COLOR: ODOR: ODOR THRESHOLD: pH: FREEZING/MELTING POINT (deg. C): BOILING POINT (deg. C): FLASH POINT: **EVAPORATION RATE:** FLAMMABILITY: UPPER EXPLOSIVE LIMIT (% in air): LOWER EXPLOSIVE LIMIT (% in air): VAPOR PRESSURE (mm Hg): VAPOR DENSITY: WEIGHT PER GALLON (lbs.): SPECIFIC GRAVITY: SOLUBILITY: OCTANOL/WATER COEFFICIENT: **AUTOIGNITION TEMPERATURE: DECOMPOSITION TEMPERATURE:** VISCOSITY: SOLIDS (% by weight): VOC, weight percent

Solid Gray Odorless Not established Not established Not established Not established Not applicable Not established Not a flammable solid or gas Not established Not established Not established Not established 9.20 1.100 Not established Not established Not established Not established No data available. 100.0 0.00

#### SECTION 10: STABILITY AND REACTIVITY

STABILITY: CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION:

Stable under normal conditions. Not established Will not occur. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Sulfur containing gases

#### SECTION 11: TOXICOLOGICAL INFORMATION

# Component Toxicity / Toxicology Data:

Component Tometry / Tometrogy Dutu.		
COMPONENT NAME	LD50/LC50	
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG	
Crystalline silica	ORAL LD50 RAT 500 MG/KG	
Cellulose	INHALATION LC50-4H RAT > 5,800.00 MG/M3	
Calcium sulfate	ORAL LD50 RAT > 3,000 MG/KG	

#### This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.



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#### SAFETY DATA SHEET

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: May cause respiratory irritation.

Specific target organ toxicity-repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

#### SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Calcium sulfate	Acute Toxicity (Fish): 96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static]; 96 Hr
	LC50 Pimephales promelas: >1970 mg/L [static]
	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): Not established

#### SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements.

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:	NOT REGULATED
IATA:	NOT REGULATED

#### **SECTION 15: REGULATORY INFORMATION**

#### **INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.
 CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.
 EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.



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#### TEC SS SKIMCOAT AND PATCH 835026PM

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# SAFETY DATA SHEET

AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of Chemical Substances requirements.
KOREAN TCCL:	This product is in compliance with the Korean Existing Chemicals List
CHINA IECSC INVENTORY:	requirements. This product is in compliance with the Inventory of Existing Chemical
	Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

 Chemical Name
 CAS#

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	1 - 5
Acetaldehyde	(Carcinogen)	75-07-0	0.01 - 0.1
Benzene	(Carcinogen)	71-43-2	0.01 - 0.1
Nickel	(Carcinogen)		< 10 ppm
Chromium VI	(Carcinogen)		< 10 ppm
Lead compounds	(Carcinogen)		< 10 ppm
Cadmium compounds	(Carcinogen)		< 10 ppm
Benzene	(Developmental toxin)	71-43-2	0.01 - 0.1
Toluene	(Developmental toxin)	108-88-3	0.01 - 0.1
Methanol	(Developmental toxin)	67-56-1	0.01 - 0.1
Benzene, methyl-	(Female reproductive toxin)	108-88-3	0.01 - 0.1
Benzene	(Male reproductive toxin)	71-43-2	0.01 - 0.1

#### Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

#### **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 06-10-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.





# TEC SS SKIMCOAT AND PATCH 835026PM

SAFETY DATA SHEET

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



Print Date: 04-06-2015

## TEC SS UNSANDED CAULK 839039PM

# SAFETY DATA SHEET

REVISION DATE: 04-01-2015

SUPERSEDES: None

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### **PRODUCT INFORMATION**

PRODUCT:TEC SS UNSAPRODUCT DESCRIPTION:SealantINTENDED USE:SealantPRODUCT IDENTIFIER:839039PM

TEC SS UNSANDED CAULK Sealant 839039PM

## **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 2: HAZARDS IDENTIFICATION**

GHS Classification: GHS Precautions:	This product is not classified as hazardous under GHS criteria.
First Aid Measures:	IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms
	develop. IF IN EYES: Use an eye wash to remove chemical from the eye. IF ON
	SKIN: Wash with soap and water. IF INHALED: Remove individual to fresh air after
	an airborne exposure if any symptoms develop.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Titanium dioxide	13463-67-7	0.1 - 1	Carc. 2; H351	* (see below)
Crystalline silica	14808-60-7	0.1 - 1	Carc. 1A; H350 STOT RE 1; H372	* (see below)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

# SECTION 4: FIRST AID MEASURES

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.



TEC SS UNSANDED CAULK 839039PM

# SAFETY DATA SHEET

# **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	
	when heated. Water spray may be used to cool the containers.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self- contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide
SECTION 6: ACCIDENTAL RELEASE MEASU	RES

SPECIAL PROTECTION:	No adverse health effects expected from the clean-up of spilled material.		
	Follow personal protective equipment recommendations found in		
	Section 8 of this MSDS.		
METHODS FOR CLEAN-UP:	Dike if necessary, contain spill with inert absorbent and transfer to		
	containers for disposal. Keep spilled product out of sewers, watersheds,		
	or water systems.		

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# SECTION 7: HANDLING AND STORAGE

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place.Protect from freezing Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Titanium dioxide	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

# **ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to
	minimize exposures.
EYE PROTECTION:	Wear safety glasses when handling this product.
SKIN PROTECTION:	Not normally required. Wear chemically resistant gloves to prevent prolonged or repeated contact.
GLOVES:	Not normally required. Use nitrile gloves if conditions warrant.
<b>RESPIRATORY PROTECTION:</b>	Respiratory protection may be required to avoid overexposure when



TEC SS UNSANDED CAULK 839039PM

# SAFETY DATA SHEET

handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge and dust/mist filter.

Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Semi-solid COLOR: White ODOR: Neutral ODOR THRESHOLD: Not established 7.4 pH: FREEZING/MELTING POINT (deg. C): Not established BOILING POINT (deg. C): Not established FLASH POINT: Non flammable **EVAPORATION RATE:** Not established Not a flammable solid or gas FLAMMABILITY: UPPER EXPLOSIVE LIMIT (% in air): Not established Not established LOWER EXPLOSIVE LIMIT (% in air): VAPOR PRESSURE (mm Hg): Not established Not established VAPOR DENSITY: WEIGHT PER GALLON (lbs.): 12.50 SPECIFIC GRAVITY: 1.500 SOLUBILITY: Not established OCTANOL/WATER COEFFICIENT: Not established **AUTOIGNITION TEMPERATURE:** Not established **DECOMPOSITION TEMPERATURE:** Not established VISCOSITY: No data available. SOLIDS (% by weight): 78.5 VOC, weight percent 1.60 VOC, U.S. EPA Method 24, less water and exempt 27g/liter of material solvents (theoretically determined)

#### SECTION 10: STABILITY AND REACTIVITY

STABILITY: CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

Stable under normal conditions. Not established Will not occur.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### **Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG

## This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation : Can cause minor irritation, tearing and reddening.

Respiratory / skin sensitization: No data available.



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Print Date: 04-06-2015

# TEC SS UNSANDED CAULK

# SAFETY DATA SHEET

839039PM

Germ cell mutagenicity: No data available. Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

# SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
<b>BIOACCUMULATION:</b>	No data available.

#### This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish):
	Acute Toxicity (Daphnia): Acute Toxicity (Algae):

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

#### **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:	NOT REGULATED		
IATA:	NOT REGULATED		

#### **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS	
U.S. EPA TSCA:	This product is in compliance with the Toxic Substances Control Act's
	Inventory requirements.
CANADIAN CEPA DSL:	The components of this product are included on the DSL or are exempt
	from DSL requirements.
EUROPEAN REACH:	As a result of the introduction of REACH into Europe, this product
	cannot be imported into Europe unless the REACH requirements are
	met.
AUSTRALIA AICS:	This product is in compliance with the Australian Inventory of
	Chemical Substances requirements.
If you need more information about	t the inventory status of this product call 651 236 5858

If you need more information about the inventory status of this product call 651-236-5858.



S UNSANDED CALILK

Print Date: 04-06-2015

TEC SS UNSANDED CAULK 839039PM

# SAFETY DATA SHEET

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

## FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

 Chemical Name
 CAS#

## STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Titanium dioxide	(Carcinogen)	13463-67-7	0.1 - 1
Quartz	(Carcinogen)	14808-60-7	0.1 - 1
Ethyl acrylate	(Carcinogen)	140-88-5	< 10 ppm
Carbon black	(Carcinogen)	1333-86-4	< 10 ppm
Methanol	(Developmental toxin)	67-56-1	< 10 ppm

#### Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's. tert-Octylphenol, ethoxylated

#### **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 04-01-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

Material Safety Data Sheet U.S. Department of Labor May be used testra tion OSHA's Hazard Communication Standard, (Non-Mandatory Form) 29 CFR 1910.1200. Standard must be Form Approved consulted for specific requirements. OMB No. 1218-0072

IDENTITY (As THIC Section I	LIQUID WASHABLE TEMPERA		Note: Blank spaces	
Manufacturer's Eme	rgency Telephone Number		570-454-3596	
Address (Num umbe	r for Information	570-454-359	96	
100 E Diamond Avenue Date	e Prepared 7-26-2008			
Hazleton PA 18201 Signatur	e of Preparer (optional	)		
Section II - Hazard Ingredie Hazardous Cor)	nts/Identity Informatio	n		
ALL CP/AP PRODUCTS ARE CERTIFIED BY A NATIONAL RECOGNIZED AUTHOR- ITY ON TOXICOLOGY ASSOCIATED WITH A LEADING UNIVERSITY TO CONTAIN NO KNOWN TOXIC MATERIALS IN SUFFI CIENT QUANTITIES TO BE INJURIOUS TO THE HUMAN BODY EVEN IF INGESTED. CONFORMS TO ASTM-D 4236.				
Section III - Physical/Chemi	cal Characteristics			
Boiling Point O =	1) N/A			
Vapor Pressure (mm Hg.)	Melting Point	N/A		
Vapor Density te (Butyl Acetate = 1)	N/A			
Solubility in W #NAME?	ter Dispersible			
Appearance ar Esse Section IV - Fire and Explos Flash Point (M <sup>,</sup> LEL	ntially Odorless ion Hazard Data UEL	NONE	NONE I	
Extinguishing WAT	ER, FOAM			

Special Fire FicING **APPARATUS** Unusual Fire and Explosion Hazards NONE Section V - Reactivity Data Stability Unstable Conditions to Avoid Stable Х None Known Incompatibility aci ds Strong oxidizers and acids Hazardous Decomposition or Byproducts Hazardous May CNone Known Will Not Occur X Polymerization Section VI - Health Hazard Data Route(s) of Engest ion? Possible Health Hazards (Acute and Chronic) This product is qua ntities to be toxic or injuriopro blems. Carcinogenicity: NTP? OSHA Regulated? No Signs and Symptoms of Exposure None Known Medical Conditrava ted by Exposure None Known Emergency an e vo miting, call physician. Section VII - Precautions for Safe Handling and Use Steps to Be Tainto container and dispose of according to local regulations. Waste Disposal Method In accordance with local regulations. Precautions to Be taken in Handling and Storing Keep in cool, dry area. Other Precautions None Known Section VIII - Control Measures Respiratory Proctection (Specify Type) Not Required. Ventilation Loca Not Required Special None Mechanical (General) Not Required Other None Protective Glovred

Other Protective Clothing or EquipmentNot RequiredWork/Hygienic PracticesClean, safe work practices

Page 2

are not permitted. If any item is not applicable, or no information is available, the space

NONE

e must be marked to indicate that.

**SDS #:** 183.00 **Revision Date:** June 25, 2015

DANGER

Pictograms

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# tert-Butyl Alcohol

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

# SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H319).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336). Avoid breathing mist, vapors or spray (P261).

# SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
tert-Butyl alcohol	75-65-0	(CH <sub>3</sub> ) <sub>3</sub> COH	74.12	
Synonym: 2-methyl-2-propanol				

# SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If skin irritation occurs:** Get medical advice or attention (P332+P313). **If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# SECTION 5 — FIRE FIGHTING MEASURES

Class 1B flammable liquid; dangerous fire risk.	NFPA CODE
Flash point: 11 °C Flammable limits: Lower: 2.4% Upper: 8.0% Autoignition Temperature: 478 °C	H-2
When heated to decomposition, may emit toxic fumes.	F-3
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor<sup>TM</sup> can. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or well-ventilated area (P271).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL/TLV 100 ppm (OSHA/ACGIH). IDLH 1600 ppm (NIOSH)

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, mobile liquid. Camphor-like odor. May be solid at room temperature. Soluble: Water. Miscible in alcohol.

Boiling point: 82.4 °C Melting point: 25.7 °C Specific gravity: 0.7885 Vapor density: 2.5

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids, acid chlorides, acid anhydrides, oxidizers, and heat. Shelf life: Fair.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye, skin, and respiratory tract irritation. Nausea, dizziness, and headache. Chronic effects: N.A. Target organs: Eyes, skin, respiratory system, and central nervous system.

ORL-RAT LD<sub>50</sub>: 2743 mg/kg IHL-RAT LC<sub>50</sub>: >10,000 ppm/4H SKN-RBT LD<sub>50</sub>: >2 g/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Butanols. Hazard class: 3, Flammable liquid. UN number: UN 1120.

#### N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (200-889-7), RCRA code D001.

#### **SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OT REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S). FOR THIS AND OTHER

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals. Revision Date: June 25, 2015



	Revision Date	e: August 8, 2011	Supersedes:	July 25, 2008			
	Section	1 • Product and Company Ide	ntification				
Product Name:	LPS® Therma	Plex® Hi-Load Bearing Grease					
Part Number(s):	70414, 70406,	70414, 70406, 70435, 70455, C70414, C70406, C70435, C70455					
Chemical Name:	Petroleum Hyd	Petroleum Hydrocarbon					
Product Use:	A lubricating grease intended for bearings in industrial applications involving extreme loads.						
Manufacturer Information:	LPS Laboratories, 4647 Hugh Howell Road, Tucker, GA, USA 30084 <b>TEL:</b> USA & Canada: 1 800 241-8334 Outside USA and Canada: +1 770 243-8800						
	FAX:	USA & Canada: 1 800 543-1563 Outside USA and Canada: +1 770 2	243-8899				
Emergency Telephone Number:	Chemtrec:	USA & Canada: 1 800 424-9300 Outside USA and Canada: +1 703 {	527-3887				
Website:	http://www.lpsl	abs.com					
	S	ection 2 • Hazards Identificati	on				

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### **Emergency Overview:**

Aerosol: Not applicable

Bulk: WARNING: Prolonged or repeated skin contact may cause irritation.

Primary route(s) of entry: Skin and eye contact.

#### Potential Acute Health Effects:

Eyes:	Irritating to eyes.
Skin:	Repeated exposure may cause skin dryness or defatting of the skin.
Inhalation:	Oil mist may cause irritation of the respiratory tract.
Ingestion:	Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestinal irritation.

#### **Potential Chronic Health Effects:**

Carcinogenic Effects:	NTP: No	IARC: No	OSHA: No	ACGIH: No
Mutagenic Effects:	None			
Teratogenic Effects:	None			
Target Organs:	None			

#### Medical conditions aggravated by exposure: None known from normal exposure.

#### Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis).



-		Revision Date:	August 8, 2011	Su	persedes: July 25, 2008		
		Section 3 • Co	mposition / Inform	nation on Ingredients	i		
	Co	omponent		CASRN	Weight Percent		
D	vistillates (Petroleum), I	Hydrotreated Heavy Napht	henic	64742-52-5	60 - 100%		
		Se	ction 4 • First Aid	Measures			
Eyes:					water for at least 15 minutes. Ho eek medical attention if irritation		
Skin:	Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. DO NOT use ointments. Seek medical attention if irritation persists.						
Inhalation:			•	ediately begin rescue breat nedical attention immediate	hing. If heart has stopped, immed ly.	diately begin	
Ingestion:	spontaneous von		ce victim's head below l	knees. If victim is drowsy o	by mouth to an unconscious pers unconscious, place on the left s		
		Sect	ion 5 • Fire Fightin	g Measures			
Products of Co	mbustion:	Carbon monoxide	and carbon dioxide.				
General Fire Ha	azards:	High heat will caus	se product to boil, evolvi	ng vapor that could cause	explosive rupture of closed conta	iners.	
Firefighting me	edia:		DRY chemical powder. CO2, water spray, fog				
Sensitivity to Ir	npact:	None	Sensitivity to Stat	ic Discharge: None			
Protection Clot	thing (Fire):				itive pressure self-contained bre mposition products and oxygen d		
Special Demon	ko on Evalocion Hora	and a l					

Special Remarks on Explosion Hazards: None

Section 6 • Accidental Release Measures						
Containment Procedures:	Small Spill and Leak:	Absorb with an inert material and dispose of properly.				
	Large Spill and Leak:	Prevent material from entering sewers and drains. Pick up for disposal using absorbant pads, sand or other inert non-combustible materials. Place into appropriate waste containers for later disposal.				
Clean-Up Procedures:	Recover free product and p	lace in a suitable container for disposal.				
Evacuation Procedures:	Ventilate area of leak or spi	II. Keep unnecessary and unprotected people away.				
Special Procedures:	Remove all sources of ignit on walking surfaces - this p	ion. Ventilate area. Wear personal protective equipment during cleanup. Be aware of spilled material roduct is slippery.				

#### Section 7 • Handling and Storage

Handling: Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage: Keep container sealed until ready for use. Keep container in a cool, well-ventilated area. Store between 40°F and 120°F (4.4°C and 49°C).

#### Precautions to be taken in handling and storage:

Keep container in a cool, well-ventilated area. Avoid breathing vapors.



		Revision Date: Augu	ust 8, 2011	Supersedes:	July 25, 2008
		Section 8 • Exposure	Controls / Personal Protect	ion	
Engineering Controls:	Provide g	general and/or local exhaust venti	lation to keep exposures below 5 mg	/m3 oil mist in air.	
Personal protective equipme	ent				
Eye protection:	Safety gl recomme		ng to appropriate regulations. Eye wa	sh fountain and er	nergency shower facilities are
Hand protection:	Normally	no hand protection is required; h	owever, using chemical resistant glo	ves is recommend	ded.
Respiratory protection:			onditions does not require the use of listed above), use NIOSH approved r		
General Hygiene	Wash the	proughly after handling. Have eye	e-wash facilities immediately available	е.	
		Section 9 • Physic	al and Chemical Properties		
Appearance:	Paste		Color:	Blue / Blac	k
Odor:	Petroleu	n	Evaporation Rate:	< 1 (BuAc :	= 1)
Solubility Description:	Not solut	ble in water	Flash Point:	> 230°C (4	46°F)
Boiling Point:	Not estal	blished	Flash Point Method:	Tag-Closed	d Cup
Specific Gravity (H2O=1):	0.89 - 0.9	94 @ 20°C	Decomposition Temperature:	Not establi	shed
Vapor Density (air = 1):	> 1		Auto ignition temperature:	Not establi	shed
Vapor Pressure:	Not estal	blished	Flammable limits (estimated):	LOWER: UPPER:	N.E. N.E.
Rule 1171 PPc:	Not appli	cable	Partition Coefficient (octanol/w	ater): Not establi	shed
V.O.C. Content:	Aerosol: Bulk:	Not applicable 0% per State & Federal Consumer Product Regulations	Odor Threshold:	Not establi	shed
Melting Point:	Not estal	•	Viscosity:	Not establis	shed
pH:	Not appli	cable	Volatiles:	0%	
Heat of combustion:	Aerosol: Bulk:	Not applicable Not established			
		Section 10 • S	Stability and Reactivity		
Chemical Stability:		Product is stable under reco	mmended storage conditions.		
Conditions to Avoid:		No specific measures to avo	id.		
Incompatibility:		Reactive or incompatible wit	h oxidizing agents.		
Hazardous Decomposition:		These products are carbon of	oxides (CO, CO2).		
Hazardous Polymerization:		Will not occur.			



**Revision Date:** August 8, 2011 Supersedes:

July 25, 2008

Section 11 • Toxicological Information

#### Acute and Chronic Toxicity

#### A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

#### **B: Component Analysis**

Component	CASRN	LC-50	LD-50
Distillates (Petroleum), Hydrotreated Heavy	64742-52-5	2.18 mg/L / rat / 4 hr	> 5000 mg/kg / oral / rat
Naphthenic	04742-52-5	2.16 mg/L / fat / 4 m	> 2000 mg/kg / dermal / rabbit

\* Supplier Data

	Section 12 • Ecological Information							
Mobility:		Non-volatile. Absorbed only slowly into soil.	Persistence / Degradability:	Only slightly biodegradable				
Bioaccumulative	potential:	No bioaccumulation potential	Other adverse effects:	None known				
	Section 13 • Disposal Considerations							
Waste Status:	tatus: In its purchased form, this material does not meet the definition of a RCRA hazardous waste (40 CFR 261).							
Disposal:	Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.							
Note:	ote: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal law and regulations.							

#### Section 14 • Transport Information

#### This product is not regulated by any mode of transportation.

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.



**Revision Date:** August 8, 2011 Supersedes: July 25, 2008 Section 15 • Regulatory Information **U.S. Federal Regulations RCRA Hazardous Waste No.:** None Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): None **Toxic Substances Control Act (TSCA):** All components of this product are TSCA inventory listed and/or are exempt. Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories: None This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 component is present at or above 1%. Section 112 Hazardous Air Pollutants (HAPs): None State Regulations California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm. California and OTC States: This product is not regulated by consumer product regulations. New Jersey Right to Know: Aerosol: Not applicable Bulk: Petroleum Oil 64742-52-5 • Calcium Carbonate 471-34-1 • Lithium 12-Hydroxystearate 7620-77-1 • Molybdenum Disulfide 1317-33-5 • Olefin Sulfide NJTSR No. 800969-5422P

#### International Regulations

#### Canadian Environmental Protection Act (CEPA):

All of the components of this product are included on the Canadian Domestic Substances list (DSL).

#### Canadian Workplace Hazardous Materials Information System WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: NOT WHMIS controlled

#### Other Regulations:

Montreal Protocol listed ingredients:	None
Stockholm Convention listed ingredients:	None
Rotterdam Convention listed engredients:	None
RoHS Compliant:	Yes



**Revision Date:** 

August 8, 2011

Supersedes:

July 25, 2008

#### Section 16 • Other Information

MSDS#:	70414	HMIS 1996		HMIS III			<b>NFPA</b> Flammability	
MSDS Preparation Responsible Name:		Health:	1	Health:	[/] 1			
Elena Badiuzzi Compliance Manager		Flammability:	1	Flammability Aerosol: Flammability Bulk:	NA 1	Health		Reactivity
Telephone: +1 770 243-8800		Reactivity:	0	Physical Hazard Aerosol: Physical Hazard Bulk:	NA 0		Special	

#### Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Elena Badiuzzi, Compliance Manager

LPS Laboratories, a division of Illinois Tool Works

MSDS No: OTH111C11 Issue Date: 06 Feb 2011 Page: 1 of 4

#### MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	OATEY CLEAR THREAD CUTTING OIL
Product No.:	30200, 30201, 30202
Product Use:	Oil for thread cutting
Formula:	Not known
Synonyms:	Thread cutting oil
Firm Name &	OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland,
Mailing Address:	Ohio 44135, U.S.A. http://www.oatey.com
Oatey Phone Number:	(216) 267-7100 or (800) 321-9532
Emergency Phone	For Emergency First Aid call 1-303-623-5716 COLLECT. For
Numbers:	chemical transportation emergencies ONLY, call Chemtrec at
	1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By:	Corporate Director - Safety and Environmental Compliance
Preparation Date:	February 6, 2011

SECTION 2 CON	POSITION/	INFORMATION ON	INGREDIENTS		
INGREDIENTS:	%wt/wt:	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA:	OTHER:
Petroleum hydrocarbon	100%	Mixture	5 mg/m3	5 mg/m3	None
Mixture					

OSHA Hazard Classification: Not hazardous.

#### SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Transparent amber fluid. Mild eye, skin, inhalation and ingestion irritant.

#### SECTION 4 FIRST AID MEASURES

CALL 1-303-623-5716 COLLECT

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops.
Eyes: If material gets into eyes or if fumes cause irritation, immediately

flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.

Inhalation: If respiratory irritation develops, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

Ingestion: **DO NOT INDUCE VOMITING.** Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

MSDS No: OTH111C11 Issue Date: 06 Feb 2011 Page: 2 of 4

#### FIRE FIGHTING MEASURES SECTION 5

Flashpoint / Method: 330 Degrees F (166 Degrees C) / C.O.C. Flammability: LEL = Not available, UEL = Not available Extinguishing Use dry chemical, CO2, or foam to extinguish fire. Media: Firefighters should wear positive pressure self-contained Special Fire Fighting breathing apparatus and full protective clothing for fires in Procedure: areas where chemicals are used or stored Unusual Fire and Explosion Hazards: None Hazardous Decomposition Products: Combustion will produce oxides of carbon, phosphorus and sulfur & smoke.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Contain spill, stop source of leak, pump spilled material into salvage container, soak up remaining material with absorbent such as sand or Leak Procedures: clay. Prevent product from entering potable or natural water systems.

#### SECTION 7 HANDLING AND STORAGE

Handling: Avoid prolonged and repeated skin contact. Launder contaminated clothing before reuse.

Store away from direct heat source and strong oxidizing agents. Storage: Other: Do not pressurize, cut, weld, braze, drill, grind or heat empty containers as some flammable, hazardous or combustible residue may be present. Avoid breathing mist. For industrial use only.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Recommended to maintain mist below TLV limit. Respiratory For operations where the exposure limit may be exceeded, a NIOSH Protection: approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

Skin Protection: Eve

Oil/Chemical resistant gloves to minimize skin contact. Splash protection. Protection:

Other: Eye wash and safety shower should be available.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	500 Degrees F / 260 Degrees C
Melting Point:	Not applicable
Vapor Pressure:	Not available
Vapor Density:	Not available
Volatile Components:	Nil.
Solubility In Water:	Negligible
pH:	Not available
Specific Gravity:	0.91
Evaporation Rate:	Not available
Appearance:	Transparent amber fluid
Odor:	Mild petroleum
Will Dissolve In:	Oil and organic solvents
Material Is:	Liquid

MSDS No: OTH111C11 Issue Date: 06 Feb 2011 Page: 3 of 4

SECTION 10STABILITY AND REACTIVITYStability:Stable.Conditions To Avoid:Avoid heat, sparks, flames and other sources of ignition.HazardousDecompositionProducts:Oxides of carbon, phosphorus, and sulfur & smoke.Incompatibility/Avoid contact with strong oxidizers.HazardousWill not occur.Polymerization:Stability

#### TOXICOLOGICAL INFORMATION

Inhalation: Excessive exposure to mist may irritate respiratory tract. Skin: May cause irritation. Eye: May cause irritation. Ingestion: May irritate gastrointestinal tract. Chronic Prolonged continued skin contact may cause dermatitis, mist may Toxicity: irritate respiratory tract. Toxicity Data: Not available Sensitization: None of the components are known to cause sensitization. Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. Mutagenicity: Not available Reproductive Toxicity: Not available Medical Conditions Aggravated By Not available Exposure:

#### ECOLOGICAL INFORMATION

VOC Information: Unknown VOC Level: Unknown

SECTION 12

DOT

SECTION 11

#### SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations. RCRA Hazardous Waste Number: Not applicable EPA Hazardous Waste ID Number: Not applicable EPA Hazard Waste Class: Not applicable

#### SECTION 14 TRANSPORT INFORMATION

DOI		
Proper Shipping Name:	Not	applicable
Hazard Class/Packing Group:	Not	applicable
UN/NA Number:	Not	applicable
Hazard Labels:	Not	applicable
IMDG		
Proper Shipping Name:	Not	applicable
Hazard Class/Packing Group:	Not	applicable
UN Number:	Not	applicable
Label:	Not	applicable

MSDS No: OTH111C11 Issue Date: 06 Feb 2011 Page: 4 of 4

#### SECTION 15 REGULATORY INFORMATION

Hazard Category for Section None 311/312: Section 302 Extremely This product does not contain chemicals regulated Hazardous Substances (TPQ): under SARA Section 302. Section 313 Toxic Chemicals: This product contains no chemicals subject to SARA Title III Section 313 Reporting requirements. CERCLA 103 Reportable None California Proposition 65: None known TSCA Inventory: All of the components of this product are listed on the TSCA inventory. Canadian WHMIS Classification: Not a controlled product. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### SECTION 16 OTHER INFORMATION

NFPA and HMIS: NFPA Hazard Signal: Health: 1 Flammability: 1 Reactivity: 0 Special: None HMIS Hazard Signal: Health: 1 Flammability: 1 Reactivity: 0 PPE: B Disclaimer: The information herein has been compiled from sources believed to be reliable, up-

to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

# CRC MATERIAL SAFETY DATA SHEET

### Section 1: Product & Company Identification

Product Name: Throttle Body and Air Intake Cleaner (aerosol)

Product Number (s): 05078, 05678, 85078, 85078AZ

Product Use: Fuel-Injection Air Intake Cleaner

#### Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 1-215-674-4300(General) (800) 521-3168 (Technical) (800) 272-4620 (Customer Service) In Canada: CRC Canada Co. 2-1246 Lorimar Drive Mississauga, Ontario L5S 1R2 <u>www.crc-canada.ca</u> 1-905-670-2291 In Mexico: CRC Industries Mexico Av. Benito Juárez 4055 G Colonia Orquídea San Luís Potosí, SLP CP 78394 www.crc-mexico.com 52-444-824-1666

24-Hr Emergency - CHEMTREC: (800) 424-9300 or (703) 527-3887

### Section 2: Hazards Identification

#### Emergency Overview

 DANGER: Extremely Flammable. Vapors May Cause Flash Fires. Harmful if Inhaled or Swallowed. Eye and Skin Irritant. Contents Under Pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous. Appearance & Odor: Clear, colorless liquid; ketone odor

#### **Potential Health Effects:**

ACUTE EFFECTS:

- EYE: Moderate eye irritant. Exposure can cause irritation including stinging, tearing, redness, blurred vision, and swelling of the eyes.
- SKIN: Moderate skin irritant. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects.
- INHALATION: Breathing large amounts of this material may be harmful. Symptoms include irritation of the nose and throat and central nervous system depression (dizziness, drowsiness, weakness, headache, nausea, disorientation, unconsciousness).
- INGESTION: Main hazard is aspiration. This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. Swallowing this material may also cause nausea and diarrhea. Acetone poisoning may result in liver and kidney damage.
- CHRONIC EFFECTS: Exposure to high concentrations of this material may increase the sensitivity of the heart to certain drugs. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
- TARGET ORGANS: liver, kidneys, central nervous system

Medical Conditions Aggravated by Exposure: skin sensitivities, respiratory (asthma-like) disorders

See Section 11 for toxicology and carcinogenicity information on product ingredients.

### Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	75 - 85
Heptane isomers	142-82-5	4 - 8
Toluene	108-88-3	2-5
Diacetone alcohol	123-42-2	< 1
Carbon dioxide	124-38-9	5 - 15

### Section 4: First Aid Measures

Eye Contact:	Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
Skin Contact:	Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
Inhalation:	Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
Ingestion:	Seek medical attention. Do not induce vomiting unless instructed by medical personnel. Have victim drink a glass of water if conscious.
Note to Physicians:	This material is an aspiration hazard. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents. The use of other drugs with less arrhythmogenic potential should be considered.

### **Section 5: Fire-Fighting Measures**

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).					
	lash Point:	< 0°F / < -18°C (TCC) 869°F / 465°C	Upper Explosive Limit: Lower Explosive Limit:	12.8 2.5	
Fire and Explosion Data:					
Suitable Extinguishing Med	Suitable Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam, Class B extinguishers				
Products of Combustion:	Oxides of c	carbon			
Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and rupture. Vapors may accumulate in a confined space and create a flammable atmosphere.					
Protection of Fire-Fighters:	protectionskin pro		ossible toxic decomposition Use water spray to keep	on products. Proper eye and fire-exposed containers cool	

### Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Eliminate sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

### Section 7: Handling and Storage

Handling Procedures:	Do not use near potential sources of ignition. Wash thoroughly after use and before handling food. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Keep away from incompatible materials.

Aerosol Storage Level: III

### Section 8: Exposure Controls/Personal Protection

#### **Exposure Guidelines:**

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Acetone	1000	NE	500	750	NE		ppm
Heptane	500	NE	400	500	NE		ppm
Toluene	200	300 (c)	20	NE	NE		ppm
Diacetone alcohol	50	NE	50	NE	NE		ppm
Carbon dioxide	5000	30000(v)	5000	30000	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

#### **Controls and Protection:**

- Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.
- Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, PVA, or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

### Section 9: Physical and Chemical Properties

Physical State: liq Color: clear, colo Odor: ketone	uid orless				
Odor Threshold:	ND				
Specific Gravity:	0.785				
Initial Boiling Point:	132° / 56°C				
Freezing Point:	< -100°F / -73°C				
Vapor Pressure:	ND				
Vapor Density:	2 (air = 1)				
Evaporation Rate:	fast				
Solubility: slightly	/ soluble in water				
Coefficient of water/c	oil distribution: ND				
pH: NA					
Volatile Organic Con	npounds: <u>wt %</u> : 9.1	<u>g/L</u> :	71.4	<u>lbs./gal:</u>	0.6

### Section 10: Stability and Reactivity

Stability:	Stable				
Conditions to	o Avoid:	Sources of i	gnition; temperature extremes		
Incompatible	Materials:		Avoid contact with alkalis, reducing agents, acids and oxidizers such as chlorine and other halogens, chromates, perchlorates, peroxides and oxygen.		
Hazardous D	ecompositio	n Products:	Oxides of carbon, various hydrocarbons		
Possibility of	Hazardous F	Reactions:	No		

### Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

#### Acute Toxicity:

<u>Component</u>	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Acetone	5800 mg/kg	No data	50,100 mg/m <sup>3</sup> /8H
Heptane	No data	No data	103 g/m³/4H
Toluene	636 mg/kg	14,100 µL/kg	49 g/m <sup>3</sup> /4H
Diacetone alcohol	2520 mg/kg	13,500 mg/kg	No data
Carbon dioxide	No data	No data	470,000 ppm/30M

#### **Chronic Toxicity**:

Component Acetone	OSHA <u>Carcinogen</u> No	IARC <u>Carcinogen</u> No	NTP <u>Carcinogen</u> No	<u>Irritant</u> E & S (moderate) / R (mild)	<u>Sensitizer</u> Yes
Heptane	No	No	No	E & R (mild) / S (moderate)	Unknown
Toluene	No	No	No	E, S & R (mild)	Unknown
Diacetone alcohol	No	No	No	E (moderate) / R (mild)	Unknown
Carbon dioxide	No	No	No	No	No
				E – Eye S – Skin	R - Respiratory
Reproductive Toxicity: No	o information a	vailable			

Reproductive Toxicity:	No information available
Teratogenicity:	No information available
Mutagenicity:	No information available
Synergistic Effects:	No information available

### Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity:	Acetone - 48H	LC50 Daphnia:	10 mg/l
Persistence / Degr	adability:	No information	available
Bioaccumulation / Accumulation:		No information	available
Mobility in Environ	ment:	No information	available

### **Section 13: Disposal Considerations**

# <u>Waste Classification</u>: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the following potential waste code(s) D001. Pressurized containers may be a D003 reactive waste. (See 40 CFR Part 261.20 – 261.33) Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

### Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

Special Provisions: None

### Section 15: Regulatory Information

#### U.S. Federal Regulations:

#### Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

<u>Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)</u>: Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs), Toluene (1000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard Reactive Hazard Release of Pressure Acute Health Hazard Chronic Health Hazard	Yes No Yes Yes No
	Chronic Health Hazard	NO

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Toluene (2.5%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Toluene

#### U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Toluene

Consumer Products VOC Regulations: In

In states with consumer products VOC regulations, this product is compliant as a Fuel-Injection Air Intake Cleaner.

State Right to Know:

New Jersey:67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2Pennsylvania:67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2Massachusetts:67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2Rhode Island :67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2

#### Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

#### Product Name: Throttle Body and Air Intake Cleaner (aerosol) Product Number (s): 05078, 05678, 85078, 85078AZ

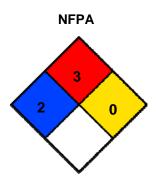
#### **European Union Regulations:**

<u>RoHS Compliance</u>: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

### Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	3
Reactivity:	0
PPE:	В



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By:	Michelle Rudnick
CRC #:	464K
Revision Date:	09/10/2010

Changes since last revision: Formula change to reduce VOC content

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH:	American	Conference	of Governmental	Industrial Hyg	jienists
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- CAS: Chemical Abstract Service
- CFR: Code of Federal Regulations
- DOT: Department of Transportation DSL: Domestic Substance List
- DSL: Domestic Substar a/L: grams per Liter
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- IMO: International Maritime Organization
- lbs./gal: pounds per gallon
- LC: Lethal Concentration
- LD: Lethal Dose

- NA: Not Applicable
- ND: Not Determined
- NIOSH: National Institute of Occupational Safety & Health
- NFPA: National Fire Protection Association
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PMCC: Pensky-Martens Closed Cup
- PPE: Personal Protection Equipment
- ppm: Parts per Million
- RoHS: Restriction of Hazardous Substances
- STEL: Short Term Exposure Limit
- TCC: Tag Closed Cup
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Information System



#### Section 1: IDENTIFICATION

#### **1.1 PRODUCT IDENTIFIER**

- Product Name: TileLab® Grout and Tile Sealer
- Product Code: Not Available

#### **1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE**

Product Use: Sealer

#### **1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS**

- Name/Address:Custom Building Products3490 Piedmont Road, Suite 1300Atlanta, GA 30329
- **Telephone Number:** (562)-598-8808

#### **1.4 EMERGENCY TELEPHONE NUMBER**

Emergency Telephone	INFOTRAC 1-800-535-5053 (US and Canada)
Number:	INTERNATIONAL + 1-352-323-3500

#### Section 2: HAZARD(S) IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR

1910.1200 (OSHA HAZCOM2012)

Eye Irritation	Category 2B
Skin Irritation	Category 2

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

- 2.2a SIGNAL WORD: Warning
- 2.2b HAZARD STATEMENTS Causes eye irritation Causes skin irritation

2.2c HAZARD PICTOGRAMS



TileLab® Grout and Tile Sealer



#### 2.2d PRECAUTIONARY STATEMENTS

i.	PREVENTION	Wash hands thoroughly after handling. Wear impervious
		gloves/protective clothing/eye protection
ii.	RESPONSE	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin
		irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical
		advice/attention.
iii.	STORAGE	Store in a well-ventilated place. Keep container tightly closed.
iv.	DISPOSAL	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

#### 2.3 ADDITIONAL INFORMATION

- 2.3a HNOC HAZARDS NOT OTHERWISE CLASSIFIED Not applicable
- **2.3b** UNKNOWN ACUTE TOXICITY 0% of the mixture consists of ingredient(s) of unknown acute toxicity.
- 2.3c WHMIS CLASSIFICATION Class D2B – Skin/Eye Irritant

#### 2.3d LABEL ELEMENTS ACCORDING TO WHMIS

i. WHMIS HAZARD SYMBOLS



ii. SIGNAL WORD CAUTION

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

This product does NOT contain any reportable "classified substances" or "hazardous chemicals" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Section 4: FIRST-AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for several minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

#### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

#### Section 5: FIRE-FIGHTING MEASURES

#### 5.1 FLAMMABILITY



Flammability:

Not Flammable by WHMIS/OSHA HAZCOM2012 Criteria

#### **5.2 EXTINGUISHING MEDIA**

- **5.2a.** Suitable Extinguishing Media: Treat for surrounding material.
- 5.2b. Unsuitable Extinguishing Media: Not available.

#### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:** May include, and are not limited to: oxides of carbon

#### 5.3b. Explosion Data

- i. Sensitivity to Mechanical Impact: Not available.
- ii. Sensitivity to Static Discharge: Not available.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment:	Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for Cleaning-Up:	Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

#### Section 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Handling:

Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on



skin or clothing. Do not breathe fumes. Do not take internally. Good housekeeping is important to prevent accumulation of dust.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage:

Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep dry until use.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETER

No data available

#### **8.2 EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

#### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. Skin Protection:
  - **1.** Hand Protection: Wear impervious gloves, such as nitrile.
  - 2. Body Protection: Wear suitable protective clothing
- iii. Respiratory Protection: A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).



iv. General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Clear
Odor:	Characteristic
Odor Threshold:	Not available
pH:	10.5 – 11.5
Melting point/Freezing point:	Not available
Initial boiling point and boiling range:	>212°F
Flash point:	>200°F
Evaporation rate (Water=1):	Not available
Flammability:	Not flammable
Upper Flammability/Explosive Limit:	Not available
Lower Flammability/Explosive Limit:	Not available
Vapor Pressure	Not available
Vapor Density:	Not available
Relative Density:	1 – 2 g/cc
Solubility in Water:	Miscible
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity (cps):	Not available
VOC Content:	1 g/L

#### Section 10: STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

#### **10.2. CHEMICAL STABILITY**

Stable under normal storage conditions. Keep dry in storage.

#### 10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

#### **10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

#### 10.5. INCOMPATIBLE MATERIALS

Strong acids. Strong Oxidizers.



#### **10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

Upon decomposition, this product may yield oxides of carbon.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

#### 11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

Eye Contact:	Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

#### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes eye irritation
Respiratory Sensitization:	Not classified
Skin Sensitization:	Not classified
STOT-Single Exposure:	Not classified
Aspiration Hazard:	Not classified
LONG-TERM	
Carcinogenicity:	Not classified
Germ Cell Mutagenicity:	Not classified
Reproductive Toxicity:	Not classified
STOT-Repeated Exposure:	Not classified
Synergistic/Antagonistic Effects:	Not classified

#### Section 12: ECOLOGICAL INFORMATION

#### 12.1. ECOTOXICITY

No additional information available



- **12.2. PERSISTENCE AND DEGRADABILITY** Not available
- **12.3. BIOACCUMULATIVE POTENTIAL** Not available
- **12.4. MOBILITY IN SOIL** Not available
- **12.5. OTHER ADVERSE EFFECTS** Not available

#### Section 13: DISPOSAL CONSIDERATIONS

#### **13.1. DISPOSAL METHOD**

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

#### **13.2. OTHER DISPOSAL CONSIDERATIONS** Not available

### Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)
UN NUMBER:	UN NUMBER:
Not regulated	Not regulated
UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:
Not regulated	Not regulated
TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):
Not regulated	Not regulated
PACKING GROUP (if applicable):	PACKING GROUP (if applicable):
Not regulated	Not regulated

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

#### **14.1. ENVIRONMENTAL HAZARDS** Not available

#### 14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

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Not available

#### 14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

### Section 15: REGULATORY INFORMATION

#### 15.1 U.S Federal Regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

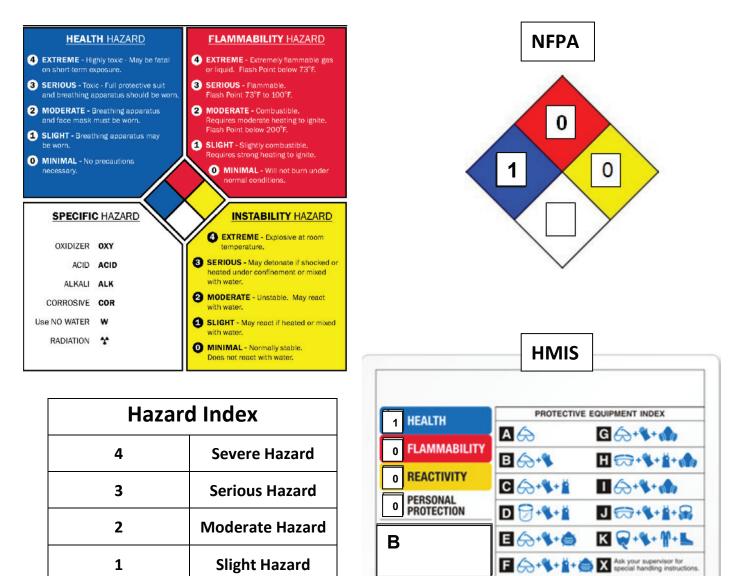
#### 15.2 U.S State Regulation:

California Proposition 65: This product does not contain any substances known to the state of California to

cause cancer and/or reproductive harm



#### **15.1. NFPA AND HMIS RATINGS:**



#### 15.2. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G) American Conference of Governmental Industrial Hygienists	
	A1 – Confirmed human carcinogen

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	A2 – Suspected human carcinogen
	A3 – Animal carcinogen
	<ul> <li>A4 – Not classifiable as a human carcinogen</li> </ul>
	<ul> <li>A5 – Not suspected a human carcinogen</li> </ul>
IARC (I)	International Agency for Research on Cancer
	<ul> <li>1 – The agent (mixture) is carcinogenic to humans</li> </ul>
	<ul> <li>2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.</li> <li>2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> <li>3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> </ul>
	<ul> <li>4 – The agent (mixture, exposure circumstance) is probably not</li> </ul>
	carcinogenic to humans.
NTP (N)	National Toxicology Program
	<ul> <li>1 – Known to be carcinogens</li> </ul>
	2 – Reasonably anticipated to be carcinogens

#### Section 16: OTHER INFORMATION

#### Date of Preparation:

September 28, 2015

Version:

4.0

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by:

Custom Building Products Phone: (562)-968-2980 www.custombuildingproducts.com

### End of Safety Data Sheet



TILEMATEFW Tile Mate F/W Series Revision Date 19-May-2016 Supersedes Date: No information available Version 1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name	Tile Mate F/W Series
Product Code	TILEMATEFW

Product(s) Covered See section 16 for more information

#### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use	No information available.
Uses Advised Against	No information available

1.3. Details of the Supplier of the Safety Data Sheet

#### Company Name

Bostik, Inc. 11320 W. Watertown Plank Road Wauwatosa, Wisconsin 53226 USA Phone: +1 (800) 843-0844 (Domestic Toll Free) Phone: +1 (414) 774-2250 (International) Fax: +1 (414) 774-8075 Email: msds@bostik-us.com

#### 1.4. Emergency Telephone Number

#### Emergency Telephone

Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887

#### Section 2: HAZARD IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

Acute toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### 2.2. Label Elements

#### EMERGENCY OVERVIEW

#### DANGER

Hazard statements Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction

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# May cause cancer May cause respiratory irritation Causes damage to organs through prolonged or repeated exposure Appearance No information available Physical State Solid Odor No information available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see first aid measures on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards Not Otherwise Classified (HNOC)

Not applicable

#### Unknown Toxicity

2% of the mixture consists of ingredient(s) of unknown toxicity

#### 2.3. Other Information

Product dust may be irritating to eyes, skin and respiratory system. When cement reacts with water a strong alkaline solution is produced. Prolonged contact with wet cement or wet concrete may cause serious burns because they develop without pain being felt e.g. when kneeling in wet cement even when wearing trousers. Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of developing lung disease.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### TILEMATEFW Tile Mate F/W Series

#### 3.1 Substances

This product is a mixture. Health hazard information is based on its components.

#### 3.2 Mixtures

Chemical Name	CAS No	Weight-%
Quartz	14808-60-7	40 - 70
Cement, portland, chemicals	65997-15-1	10 - 30
Limestone	1317-65-3	1 - 5
Gypsum (Ca(SO4).2H2O)	13397-24-5	1 - 5
Aluminum oxide	1344-28-1	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

General Advice	If symptoms persist, call a physician.	
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.	
Skin Contact	Brush off loose particles from skin. Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician.	
Ingestion	Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label. Rinse mouth.	
Self-protection of the First Aider	Use personal protective equipment as required.	
4.2. Most Important Symptoms and	Effects, Both Acute and Delayed	
Symptoms	No information available.	
4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed		
Note to physicians	May cause sensitization of susceptible persons. Treat symptomatically.	
4.4. Reference to Other Sections		
Reference to Other Sections	Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Section 11: TOXICOLOGY INFORMATION	

#### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable Extinguishing Media Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media None known.

#### 5.2. Special Hazards Arising from the Substance or Mixture

#### Specific Hazards Arising from the Chemical

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Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion	Carbon oxides.
Products	

Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None. None.

#### 5.3. Advice for Firefighters

**Protective Equipment and Precautions for Firefighters** Wear self contained breathing apparatus for fire fighting if necessary.

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid creating dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing and eye/face protection.
For Emergency Responders	Sweep up to prevent slipping hazard.
6.2. Environmental Precautions	
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.
6.3. Methods and Material for Conta	inment and Cleaning up
Methods for Containment	Prevent dust cloud. Take up mechanically, placing in appropriate containers for disposal.
Methods for Cleaning up	Use personal protective equipment as required. Sweep up and shovel into suitable containers for disposal. Avoid creating dust.
6.4. Reference to other sections	
Reference to Other Sections	Section 7: HANDLING AND STORAGE Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Section 13: DISPOSAL CONSIDERATIONS

#### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Advice on Safe Handling	Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust. Avoid contact with skin and eyes.	
7.2. Conditions for Safe Storage, in	cluding any Incompatibilities	
Storage Conditions	Keep out of the reach of children. Protect from direct contact with water or excessive moisture. Keep the packing dry and well sealed to prevent contamination and absorption of humidity.	
Incompatible Materials	None known based on information supplied.	
7.3. Specific End Use(s)		

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**Other Information** 

No information available.

7.4. References to Other Sections

**Reference to Other Sections** 

Section 13: DISPOSAL CONSIDERATIONS Section 10: STABILITY AND REACTIVITY

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Quartz	TWA: 0.025 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable	: (30)/(%SiO2 + 2) mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
14808-60-7	respirable fraction	dust	TWA total dust	
		TWA: 0.05 mg/m <sup>3</sup>	: (250)/(%SiO2 + 5) mppcf	
		respirable dust	TWA respirable fraction	
			: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
			TWA respirable fraction	
Cement, portland, chemicals	TWA: 1 mg/m <sup>3</sup> particulate	IDLH: 5000 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup>
65997-15-1	matter containing no	TWA: 10 mg/m <sup>3</sup> total dust	TWA: 5 mg/m <sup>3</sup> respirable	STEL: 20 mg/m <sup>3</sup>
	asbestos and <1%	TWA: 5 mg/m <sup>3</sup> respirable	fraction	
	crystalline silica, respirable	dust	TWA: 50 mppcf <1%	
	fraction		Crystalline silica	
Limestone	-	TWA: 10 mg/m <sup>3</sup> total dust	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup>
1317-65-3		TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable	STEL: 20 mg/m <sup>3</sup>
		dust	fraction	
Gypsum (Ca(SO4).2H2O)	TWA: 10 mg/m <sup>3</sup> inhalable	TWA: 10 mg/m <sup>3</sup> total dust	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup>
13397-24-5	fraction	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable	
		dust	fraction	
Aluminum oxide	TWA: 1 mg/m <sup>3</sup> respirable	-	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup>
1344-28-1	fraction		TWA: 5 mg/m <sup>3</sup> respirable	
			fraction	

Chemical Name	Argentina	Brazil	Chile	Venezuela
Quartz 14808-60-7	TWA: 0.05 mg/m <sup>3</sup>	-	TWA: 0.08 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	TWA: 10 mg/m <sup>3</sup>	-	TWA: 8 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	-	TWA: 8 mg/m <sup>3</sup>	-
Gypsum (Ca(SO4).2H2O) 13397-24-5	-	-	TWA: 8 mg/m <sup>3</sup>	-
Aluminum oxide 1344-28-1	TWA: 10 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup>

8.2. Exposure Controls

Engineering Controls

Showers Eyewash stations Ventilation systems.

Personal protective equipment [F	PPE]
Eye/Face Protection	Tight sealing safety goggles. Face protection shield. Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
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Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.	
General Hygiene Consideration	ns When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly	

after handling. Keep away from food, drink and animal feeding stuffs.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	
Color	Multiple Colors	
Odor	No information available	
Odor Threshold	No information available	
Property	Values	Remarks • Method
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	No information available	
Flash Point	> 93.3 °C / > 200 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in Other Solvents		
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dumencie Viececitu	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	
9.2. Other Information		
Softening Point	No information available	
Molecular Weight	No information available	
Solvent Content (%)	No information available	
Solid Content (%)	100	
Density	2.79 g/cm <sup>3</sup>	
voc	No information available	

#### Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

None under normal use conditions.

#### 10.2. Chemical Stability

Stable under recommended storage conditions.

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#### 10.3. Possibility of Hazardous Reactions

None under normal processing.

#### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible Materials

None known based on information supplied.

#### 10.6. Hazardous Decomposition Products

None known based on information supplied.

### Section 11: TOXICOLOGY INFORMATION

#### 11.1. Information on Toxicological Effects

Product Information	No Data Available
Inhalation	No Data Available.
Eye contact	No Data Available.
Skin Contact	No Data Available.
Ingestion	No Data Available.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz	>2000 mg/kg (Rat)	-	-
14808-60-7			
Limestone	>5000 mg/kg (rat)	-	-
1317-65-3			
Aluminum oxide	> 5000 mg/kg (Rat)	-	-
1344-28-1			

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Symptoms Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Irritation Corrosivity Sensitization Germ Cell Mutagenicity Reproductive Toxicity Developmental Toxicity Teratogenicity STOT - Single Exposure STOT - Repeated Exposure Chronic Toxicity	No information available. No information available. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target Organ Effects	Eyes, Lungs, Respiratory system, Skin.
Aspiration Hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	X

# Safety Data Sheet

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14808-60-7				
Aluminum oxide	-	-	Reasonably Anticipated	Х
1344-28-1				

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

### Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Limestone	CE50 (72h) >200mg/L Algae	CL50 (96h)>10000mg/L Fish		CE50 (48h) >1000 mg/L
1317-65-3	(Desmondesmus	(Oncorhynchus mykiss)		Daphnia Magna
	subspicatus)			

### 12.2. Persistence and Degradability

No information available.

### 12.3. Bioaccumulative Potential

No information available.

### 12.4. Mobility in Soil

No information available.

### 12.5 Other adverse effects

No information available

### Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Disposal of Wastes** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

### Contaminated Packaging Dispose of in accordance with federal, state and local regulations

# Section 14: TRANSPORTATION INFORMATION

DOT Not regulated

# Safety Data Sheet

TILEMATEFW Tile Mate F/W Series Revision Date 19-May-2016 Supersedes Date: No information available Version 1

IATA IMDG Not regulated Not regulated

### Section 15: REGULATORY INFORMATION Global Inventories

TSCA	Listed
DSL	Listed

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

### <u>Canada</u>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

### WHMIS Hazard Class

D2A - Very toxic materials E - Corrosive material



### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### California Proposition 65

This product contains one or more of the substances listed on Proposition 65 at or above 0.01 wt. %

Chemical Name	CAS No
Quartz	14808-60-7
Titanium dioxide	13463-67-7

# Europe

### Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

# Safety Data Sheet

TILEMATEFW Tile Mate F/W Series Revision Date 19-May-2016 Supersedes Date: No information available Version 1

# EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### Section 16: OTHER INFORMATION

### Product(s) Covered

G00712-26A	BOS MOR 50# TILE-MATE 712 WH
G00762-26A	BOS MOR 50# TILE-MATE 762 GR

HMIS Health Hazards 2* Flammability 1	Physical Hazards 0	Personal Protection X
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Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet No information available

Key Literature References and Sources for Data No information available

Prepared By	Product Safety & Regulatory Affairs
Revision Date	19-May-2016
Revision Note	Not applicable.
Training Advice	No information available
Additional information	No information available

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### End of Safety Data Sheet

# **SDS #:** 822.00 **Revision Date:** March 25, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Tin Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261 CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word N/A Pictograms SECTION 2 — HAZARDS IDENTIFICATION This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution. Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed. Image: Colspan="2">Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan=

# SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Tin	7440-31-5	Sn	118.69	

# SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If on skin: Rinse with water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. Finely divided metal may be combustible. When heated to decomposition, may emit toxic fumes. **In case of fire:** Use a tri-class dry chemical fire extinguisher. NFPA Code None established

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Tin

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Exposure guidelines: PEL/TLV 2 mg/m<sup>3</sup> (OSHA/ACGIH)

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Silver-white, ductile solid. Forms: granular, mossy, shot, and foil. Odorless.

Soluble: Acids and hot potassium hydroxide solution. Insoluble in water.

Boiling point: 2507 °C Melting point: 232 °C Specific gravity: 7.310

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, sulfur, strong bases, halogens. Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: N.A. IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #27a is one option.

### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

### N/A = Not applicable

### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-141-8), RCRA code D001.

### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 25, 2014

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Tinker Can Pipe Dope MATERIAL SAFETY DATA SHEET S O S PRODUCTS COMPANY INC P. O. Box 47 East Greenville, Pa. 18041 Phone (215)-679-6262 (215)-679-6263 PAGE 1 \_\_\_\_\_ SECTION I - GENERAL INFORMATION \_\_\_\_\_ Product Code: PD Revision Date: 03/06/11 Identification: PIPE DOPE \_\_\_\_\_ SECTION II - HAZARDOUS INGREDIENTS \_\_\_\_\_ This product is not classified as hazardous in accordance with OSHA 1910.1200 \_\_\_\_\_ Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration. -----SECTION III - PHYSICAL CHARACTERISTICS \_\_\_\_\_ Boiling Point: 3000 F Specific Gravity: 1.61 Vapor Pressure: N/A Melting Point: N/A Vapor Density: N/A Evaporation Rate: N/A Solubility in Water: NOT SOLUBLE Odor and Appearance: GRAY ODORLESS PASTE SECTION IV - FIRE AND EXPLOSION HAZARD DATA \_\_\_\_\_ Flash Point: 3000 F. LEL: N/A UEL: N/A Flammable Limits: N/A Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL Special Fire Fighting Procedures: USE WATER TO COOL FIRE-EXPOSED CONTAINERS. Unusual Fire and Explosion Hazards: NONE \_\_\_\_\_ SECTION V - REACTIVITY DATA

Tinker Can Pipe Dope \_\_\_\_\_ This product is STABLE. Conditions to avoid: DIRECT CONTACT WITH OPEN FLAME. Incompatibility: NONE KNOWN Hazardous Decomposition: CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM ON BURNING. Hazardous Polymerization WILL NOT OCCUR. \_\_\_\_\_ SECTION VI - HEALTH HAZARD DATA \_\_\_\_\_ Routes of Entry: Inhalation? NO YES - PRIMARY Skin? Ingestion? YES - SECONDARY Health Hazards (Acute and Chronic): NONE Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO Signs and Symptoms of Exposure: PROLONGED CONTACT MAY BE MILDLY IRRITATING TO CERTAIN PEOPLE. Medical Conditions Generally Aggravated by Exposure: NONE KNOWN Emergency and First Aid Procedures: SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN. \_\_\_\_\_ SECTION VII - HANDLING PRECAUTIONS \_\_\_\_\_ Steps to be Taken if Material is Released or Spilled: USE ABSORBENT MATERIAL & SWEEP UP. Waste Disposal Method: NON-HAZARDOUS LANDFILL Precautions to be Taken in Handling and Storage: NONE Other Precautions: AVOID DIRECT CONTACT WITH OPEN FLAME & SPARKS. \_\_\_\_\_ SECTION VIII - CONTROL MEASURES Respiratory Protection: NONE REQUIRED FOR NORMAL USE. Ventilation Required: USE NORMAL VENTILATION.

Tinker Can Pipe Dope Protective Gloves: WEAR RUBBER GLOVES Eye Protection: WEAR SAFETY GOGGLES OR GLASSES. Other Protective Equipment: NONE REQUIRED FOR NORMAL USE. Work/Hygienic Practices: WASH THOROUGHLY WITH SOAP & WATER AFTER USING.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

### SECTION I · PRODUCT IDENTIFICATION

Manufacturers Address: 105 Bucknell Court, Suite B Atlanta, Georgia 30336 Product Type: Liquid Rim Conditioner Emergency Phone: (800) 982-2325 Information Phone: 404-349-2560 Date Prepared: 02/12/08 Preparer: R Braun

%WT

HMIS Rating 0- Minimal 1- Slight 2- Moderate 3- Serious 4- Extreme HEALTH: 0 FIRE: 0 REACTIVITY: 0

# SECTION II · HAZARDOUS INGREDIENTS

CHEMICAL NAME

TLV PEL

None Reportable

### SECTION III · PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: > 212 %pH: 8  $\pm$  0.5 Solubility In Water: Complete Appearance/Odor: Clear green or red liquid , slight NH4 odor.

**CAS Number** 

Vapor Density (Air=1): 2.4 Vapor Pressure: 1 mmHg VOC %: 5.5 Specific Gravity (H<sub>2</sub>O=1): 1.01 Evaporation Rate (Water=1): >1

# SECTION IV · FIRE FIGHTING MEASURES

Flash Point (method used): None to 212 °F. Extinguishing Media: N/A Flammable Limits: N/A. Special Fire Fighting Procedures: N/A Unusual Fire and Explosion Hazards: None known.

# SECTION V · REACTIVITY AND STABILITY

Stability: Stable.

Conditions to Avoid: Temperatures in excess of boiling. Incompatibility: Avoid contact with strong oxidizing agents. Hazardous Decomposition Products: Oxides of Carbon and smoke particulates. Hazardous Polymerization: Will not occur.

### SECTION VI · STORAGE AND HANDLING

**Precautions To Be Taken In Handling and Storage:** For <u>Industrial and Institutional</u> use only. Store in a cool, dry area away from heat or open flame. Do not store at temperatures in access of 120 °F for prolonged periods. Always store in original tightly sealed container.

Other Precautions: Follow Label Instructions and Precautions.

### SECTION VII · FIRST AID MEASURES

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes. If irritation develops seek medical attention. **Skin:** Wash skin with soap and water. If irritation develops seek medical attention. **Inhalation:** For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

Ingestion: INDUCE vomiting. Drink large amounts of water. Seek medical attention immediately.

# SECTION VIII · EXPOSURE CONTROLS / PERSONALPROTECTION

Eye Protection: Eye Protection when pouring.

Respiratory Protection: None required under normal use conditions.

Ventilation: General Mechanical ventilation to prevent TLV from exceeding control limits.

Protective Gloves: Plastic or rubber gloves encouraged

# DELTA FIRST CORPORATION

# Material Safety Data Sheet

Material Identity: WHEEL SAVER

### SECTION IX · ACCIDENTAL RELEASE MEASURES

**Small Spill:** Stop source of spill. Absorb on inert media and collect into suitable container. **Large Spill:** Stop leak at the source. Absorb on inert media and collect into suitable container.

### SECTION X · HAZARD IDENTIFICATION

None Reportable

### SECTION XI · TOXICOLOGY

Skin: Slight irritant upon prolonged contact.

Eyes: Slight Irritation, experienced as mild discomfort and accompanied by some redness.

**Inhalation:** May be slightly irritating to respiratory system, overexposure may result in dizziness, headache, nausea and drowsiness. **Ingestion:** May cause gastric distress, diarrhea and vomiting. Excessive amounts will cause kidney damage. Severe poisoning may cause death.

### SECTIONXII · ECOLOGY INFORMATION

No information available on the compounded material.

### SECTION XIII · DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations. Refer to the latest EPA or state regulations regarding proper disposal.

### SECTION XIV - TRANSPORTATION

Proper Shipping Name: Product is NOT regulated as a hazardous material under the regulations of either the United States Department of Transportation or the IMDG.

Hazard Class: UN Number: Packaging Group:

### SECTION XV. OTHER INFORMATION

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

**NOTICE:** The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

# **Franklin International**

# **Material Safety Data Sheet**

**Titebond Professional Drywall Adhesive** 

1. Product and company identification	
CAS #	: Mixture
Address	: Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	: Franklin Technical Services
Telephone	: (800) 877-4583
Emergency phone:	: Franklin Security (614) 445-1300
Reference number	: 3104
Product code	: 5352
Date of revision	: 4/23/2009.
Print date	: 7/30/2009.
Chemtrec (24 Hour)	: (800) 424 - 9300
Chemtrec International	: (703) 527 - 3887
Chemical family	: Adhesive.
Product use	: Construction Adhesive
Product type	: Solvent Based

### Hazards identification 2.

Product name :

7/30/2009.	5352 1
Ingestion	: Harmful if swallowed.
Inhalation	: Toxic by inhalation. Moderately irritating to the respiratory system.
Potential acute health effects	
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
	Extremely flammable liquid. Harmful by inhalation. May be harmful if swallowed. Severely irritating to eyes. Irritating to skin. Moderately irritating to the respiratory system. Defatting to the skin. Keep away from heat, sparks and flame. Do not breath vapor or mist. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Contains material that may cause target organ damage. Contains material which can impair female fertility. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
	EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AN CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.
Emergency overview	: DANGER!
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Odor	: Solvent(s) [Strong]
Physical state	: Liquid. [Paste.]

### Hazards identification 2

Skin	: Irritating to skin.
Eyes	: Severely irritating to eyes. Risk of serious damage to eyes.
Potential chronic health ef	<u>fects</u>
Chronic effects	: Contains material that may cause target organ damage. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Contains material which can impair female fertility.
Target organs	<ul> <li>Contains material which may cause damage to the following organs: kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.</li> </ul>
Over-exposure signs/symp	<u>otoms</u>
Inhalation	: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness dryness cracking
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients				
Name	CAS number	<u>%</u>		
n-hexane	110-54-3	10 - 25		
toluene	108-88-3	10 - 25		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures			
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.		
Skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</li> </ul>		
Inhalation	<ul> <li>Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.</li> </ul>		
7/30/2009	5353		

Titebond Professional Drywall Adhesive

# **4.** First aid measures Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical

	attention immediately.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

# 5. Fire-fighting measures

Flammability of the product	:	Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Extinguishing media		
Suitable	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Not suitable	:	Do not use water jet.
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	<ul> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> </ul>
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Absorb with an inert material.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# 7. Handling and storage

Н	an	dli	ing	

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat,

# 7. Handling and storage

sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

Ingredient	Exposure limits
n-hexane	OSHA PEL 1989 (United States, 3/1989). TWA: 50 ppm 8 hour(s). TWA: 180 mg/m <sup>3</sup> 8 hour(s). NIOSH REL (United States, 6/2008). TWA: 50 ppm 10 hour(s). TWA: 180 mg/m <sup>3</sup> 10 hour(s). ACGIH TLV (United States, 1/2008). Absorbed through skin. TWA: 50 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 500 ppm 8 hour(s). TWA: 1800 mg/m <sup>3</sup> 8 hour(s).
toluene	OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hour(s). TWA: 375 mg/m <sup>3</sup> 8 hour(s). STEL: 150 ppm 15 minute(s). STEL: 560 mg/m <sup>3</sup> 15 minute(s). OSHA PEL Z2 (United States, 11/2006). TWA: 200 ppm 8 hour(s). CEIL: 300 ppm AMP: 500 ppm 10 minute(s). NIOSH REL (United States, 6/2008). TWA: 100 ppm 10 hour(s). TWA: 375 mg/m <sup>3</sup> 10 hour(s). STEL: 150 ppm 15 minute(s). STEL: 560 mg/m <sup>3</sup> 15 minute(s). STEL: 560 mg/m <sup>3</sup> 15 minute(s). ACGIH TLV (United States, 1/2008). TWA: 20 ppm 8 hour(s).

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering measures	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# 8. Exposure controls/personal protection

-	
Personal protection	
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eyes	<ul> <li>Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.</li> </ul>
Skin	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

# 9. Physical and chemical properties

Physical state	: Liquid. [Paste.]
Flash point	: Closed cup: <-17.778°C (<-0.0004°F) [Setaflash.]
Flammable limits	: Lower: 1.2% Upper: 7.5%
Color	: Beige.
Odor	: Solvent(s) [Strong]
<b>Boiling/condensation point</b>	: 65.556°C (150°F)
Relative density	: 1.12
Volatility	: 31.16% (w/w)
VOC (less water, less exempt solvents)	: 365 g/l
<b>Dispersibility properties</b>	: Not dispersible in the following materials: cold water and hot water.
Solubility	: Insoluble in the following materials: cold water and hot water.

# 10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid	<ul> <li>Highly reactive or incompatible with the following materials: oxidizing materials</li> </ul>
Incompatibility	<ul> <li>Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.</li> </ul>
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions of reactivity	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-hexane	LD50 Oral	Rat	25 gm/kg	-
	LDLo	Rat	9100 mg/kg	-
	Intraperitoneal			
	TDLo Oral	Rat	20000 mg/kg	-
	LC50 Inhalation	Rat	627000 mg/m3	3 minutes
	LC50 Inhalation	Rat	48000 ppm	4 hours
toluene	LD50 Dermal	Rabbit	14100 uL/kg	-
	LD50	Rat	1332 mg/kg	-
	Intraperitoneal			
	LD50 Intravenous	Rat	1960 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-
	LD50 Unreported	Rat	6900 mg/kg	-
	LDLo	Rat	2.5 mL/kg	-
	Intraperitoneal			
	TDLo Oral	Rat	400 mg/kg	-
	TDLo Oral	Rat	800 mg/kg	-
	TDLo Oral	Rat	1200 mg/kg	-
	TDLo	Rat	900 mg/kg	-
	Intraperitoneal			
	TDLo	Rat	750 mg/kg	-
	Intraperitoneal			
	TDLo	Rat	1 gm/kg	-
	Intraperitoneal			
	TDLo	Rat	600 mg/kg	-
	Intraperitoneal			
	LC50 Inhalation	Rat	49 gm/m3	4 hours
Chronic toxicity				

# Chronic toxicity

No known significant effects or critical hazards.

<u>Irrita</u>	<u>tion</u>	<u>/Cc</u>	orrosi	on
_				

Conc	lusion	/Summa	ry

- Skin
- Eyes

: Severely irritating to eyes.

dermatitis.

Respiratory

: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

# <u>Sensitizer</u>

No known significant effects or critical hazards.

Carcinogenicity Classification

Product/ingredient name toluene	ACGIH A4	IARC 3	EPA -	NIOSH	NTP -	OSHA -
<b>Mutagenicity</b>						
No known significant effects	or critical haza	ards.				
Teratogenicity						
No known significant effects	or critical haza	ards.				
Reproductive toxicity						
Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
toluene	-	-	-	Rat	Inhalation	ı –
Conclusion/Summary : Re	eproductive toxic	ant - female				

invironmental effects	: No known	significant effects or critical ha	azards.	
Aquatic ecotoxicity				_
Product/ingredient name n-hexane	Test -	<b>Result</b> Acute LC50 113000 ug/L Fresh water	<b>Species</b> Fish - Mozambique tilapia - Tilapia mossambica - 99 mm - 10 g	Exposure 96 hours
	-	Acute LC50 2500 to 2980 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 31 days - 20.4 mm - 0.123 g	96 hours
toluene	-	Acute EC50 19600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - LARVAE	48 hours
	-	Acute EC50 6880 to 9830 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <=24 hours	48 hours
	-	Acute EC50 6780 to 7810 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 54 mm - 2.187 g	96 hours
	-	Acute EC50 6000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	-	Acute LC50 15.5 ppm Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio - Adult	48 hours
	-	Acute LC50 15500 ug/L Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	-	Acute LC50 9360 ug/L Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - FRY - >90 days	96 hours
	-	Acute LC50 8110 ug/L Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - 0.3 g	96 hours
	-	Acute LC50 8090 to 8780 ug/L Marine water	Fish - Pink salmon - Oncorhynchus gorbuscha - FRY - 3.5 cm - 0.35 g	96 hours
	-	Acute LC50 7630 to 8480 ug/L Marine water	Fish - Pink salmon - Oncorhynchus gorbuscha - FRY - 3.5 cm - 0.35 g	96 hours
	-	Acute LC50 170000 ug/L Marine water	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea	48 hours
	-	Acute LC50 97700 to 174700 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <=24 hours	48 hours
	-	Acute LC50 6780 to 7810 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 54 mm - 2.187 g	96 hours
	-	Acute LC50 6410 to 7180 ug/L Marine water	Fish - Pink salmon - Oncorhynchus gorbuscha - FRY - 3.5 cm - 0.35 g	96 hours
		Acute LC50 86300 to	Daphnia - Water flea -	48 hours

-	Acute LC50 5800 ug/L Fresh water	- <=24 hours Fish - Rainbow trout,donaldson trout -	96 hours
		Oncorhynchus mykiss	00 h a
-	Acute LC50 5500 ug/L Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - FRY - 1 g	96 hours
-	Acute LC50 310000 to 420000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
-	Acute LC50 7.3 ul/L Marine water	Fish - Striped bass - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) - 6 g	96 hours

# **Biodegradability**

No known significant effects or critical hazards.

Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	1133	Consumer commodity	ORM-D			-
TDG Classification	1133	ADHESIVES, containing flammable liquid	3	111		Remarks Limited quantity
Mexico Classification	1133	ADHESIVES, containing flammable liquid	3	111		-
ADR/RID Class	1133	ADHESIVES, containing flammable liquid	3	111		-
IMDG Class	1133	ADHESIVES, containing flammable liquid	3	111		Remarks Limited quantity

Titebond Professional Drywall Adhesive

# 14. Transport information

1133

IATA-DGR Class

ADHESIVES, containing flammable liquid

3



Remarks Limited quantity

PG\* : Packing group

### 15. Regulatory information **United States HCS Classification** : Flammable liquid Toxic material Irritating material Target organ effects **U.S. Federal regulations** : United States inventory (TSCA 8b): All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: toluene; n-hexane; Benzene, ethenyl-, polymer with 1,3-butadiene SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Titebond Professional Drywall Adhesive: Fire hazard, Immediate (acute) health hazard, Delaved (chronic) health hazard : Not listed **DEA List I Chemicals** (Precursor Chemicals) **DEA List II Chemicals** : Listed (Essential Chemicals) **SARA 313** Product name **CAS number Concentration** 10 - 25 Form R - Reporting n-hexane 110-54-3 108-88-3 10 - 25 requirements toluene 10 - 25 **Supplier notification** : n-hexane 110-54-3 toluene 108-88-3 10 - 25 SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed. State regulations : Massachusetts Spill: None of the components are listed. Massachusetts Substances: The following components are listed: HEXANE; TOLUENE **New Jersey Hazardous Substances:** The following components are listed: n-HEXANE; TOLUENE New Jersev Spill: None of the components are listed. New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. Pennsylvania RTK Hazardous Substances: The following components are listed: HEXANE; BENZENE, METHYL-California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. No significant risk **Ingredient name** Cancer **Reproductive** Maximum acceptable dosage level level 7000 µg/day toluene No. Yes. No. (ingestion) 13000 µg/day (inhalation)

# International regulations

# 15. Regulatory information

International lists	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Japan inventory (ENCS): Not determined.</li> <li>Japan inventory (ISHL): Not determined.</li> <li>Korea inventory (KECI): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

# 16. Other information

Label	requ	ireme	ents
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: EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.

### Hazardous Material Information System (U.S.A.)

Health		-
Flammability		
Physical hazards		

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Date of printing	: 7/30/2009.
Date of issue	: 4/23/2009.
Date of previous issue	: 1/19/2009.
Version	: 1

✓ Indicates information that has changed from previously issued version.

# Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# **Franklin International**

# **Material Safety Data Sheet**

**Titebond Heavy Duty Construction Adhesive** 

# 1. Product and company identification

CAS #	: mixture
Synonym	: None known.
Address	: Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	: Franklin Technical Services
Telephone	: (800) 877-4583
In case of emergency	: Franklin Security (614) 445-1300
Reference number	: 3195
Product code	: 5261
Date of revision	: 6/6/2014.
Print date	: 6/6/2014.
Chemtrec (24 Hour)	: (800) 424 - 9300
Chemtrec International	: (703) 527 - 3887
Product use	: Construction Adhesive
Product type	: Solvent based

# 2. Hazards identification

Emergency overview		
Physical state	:	Liquid. [Paste.]
Color	1	Beige.
Odor	1	Solvent. [Strong]
Signal word	1	DANGER!
Hazard statements	:	EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.
Precautionary measures	:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.
OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	1	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects		
Inhalation	:	Toxic by inhalation. Irritating to respiratory system.
Ingestion	:	Harmful if swallowed.
Skin	:	Irritating to skin.

# 2. Hazards identification

Eyes	: Severely irritating to eyes. Risk of serious damage to eyes.
Potential chronic health ef	ifects
Chronic effects	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: Contains material which can impair female fertility.
Target organs	: Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, the reproductive system, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
Over-exposure signs/sym	<u>otoms</u>
Inhalation	<ul> <li>High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight</li> </ul>

	skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Eyes	: Adverse symptoms may include the following:

increase in fetal deaths

 Eyes
 : Adverse symptoms may include the following:

 pain or irritation
 watering

 redness
 reduced fetal weight

 increase in fetal deaths
 skeletal malformations

 Medical conditions
 : None known.

### Medical conditions aggravated by overexposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

# **United States**

Name	CAS number	%
n-hexane acetone toluene	110-54-3 67-64-1 108-88-3	10 - 25 10 - 25 5 - 10
<u>Canada</u>		

# 3. Composition/information on ingredients

Name	CAS number	%
n-hexane	110-54-3	10 - 25
acetone	67-64-1	10 - 25
toluene	108-88-3	5 - 10

### <u>Mexico</u>

		Classification						
Name	CAS number	UN number	%	IDLH	н	F	R	Special
n-hexane acetone toluene	110-54-3 67-64-1 108-88-3	UN1993 UN1993 UN1993	10 - 25 10 - 25 5 - 10	1100 ppm 2500 ppm 500 ppm	1 2 2	3 3 3	0 0 0	- - -

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measu	ures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	<ul> <li>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>

# 5. Fire-fighting measures

Flammability of the product	:	Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Extinguishing media		
Suitable	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Not suitable	:	Do not use water jet.
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide

Titebond Heavy Duty Construction Adhesive

# 5. Fire-fighting measures

**Special protective** equipment for fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

Personal precautions		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Absorb with an inert material.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Store between the following temperatures: -17 to 40°C (1.4 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

**United States** 

# 8. Exposure controls/personal protection

Ingredient	Exposure limits
n-hexane	OSHA PEL 1989 (United States, 3/1989). TWA: 50 ppm 8 hours. TWA: 180 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2013). TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. ACGIH TLV (United States, 6/2013). Absorbed through skin. TWA: 50 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 500 ppm 8 hours. TWA: 1800 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
acetone	ACGIH TLV (United States, 6/2013). TWA: 500 ppm 8 hours. TWA: 1188 mg/m <sup>3</sup> 8 hours. STEL: 750 ppm 15 minutes. STEL: 1782 mg/m <sup>3</sup> 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 750 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2013). TWA: 250 ppm 10 hours. TWA: 590 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1000 ppm 8 hours. TWA: 2400 mg/m <sup>3</sup> 8 hours.
toluene	<ul> <li>OSHA PEL 1989 (United States, 3/1989).</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 375 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 560 mg/m<sup>3</sup> 15 minutes.</li> <li>OSHA PEL Z2 (United States, 2/2013).</li> <li>TWA: 200 ppm 8 hours.</li> <li>CEIL: 300 ppm</li> <li>AMP: 500 ppm 10 minutes.</li> <li>NIOSH REL (United States, 10/2013).</li> <li>TWA: 100 ppm 10 hours.</li> <li>TWA: 375 mg/m<sup>3</sup> 10 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 560 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 375 mg/m<sup>3</sup> 10 hours.</li> <li>STEL: 560 mg/m<sup>3</sup> 15 minutes.</li> <li>ACGIH TLV (United States, 6/2013).</li> <li>TWA: 20 ppm 8 hours.</li> </ul>

# <u>Canada</u>

Occupational exposure limits		TWA	TWA (8 hours)			STEL (15 mins)			g		
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
n-hexane	US ACGIH 6/2013	50	-	-	-	-	-	-	-	-	[1]
	AB 4/2009	50	176	-	-	-	-	-	-	-	[1]
	BC 7/2013	20	-	-	-	-	-	-	-	-	[1]
	ON 1/2013	50	-	-	-	-	-	-	-	-	[1]
	QC 12/2012	50	176	-	-	-	-	-	-	-	[1]
acetone	US ACGIH 6/2013	500	1188	-	750	1782	-	-	-	-	
	AB 4/2009	500	1200	-	750	1800	-	-	-	-	
	BC 7/2013	250	-	-	500	-	-	-	-	-	
	ON 1/2013	500	1188	-	750	1782	-	-	-	-	
	QC 12/2012	500	1190	-	1000	2380	-	-	-	-	
	I	1	1		1	1	1	1	1	1	1

# Titebond Heavy Duty Construction Adhesive

# 8. Exposure controls/personal protection

•	•	-									
toluene	US ACGIH 6/2013	20	-	-	-	-	-	-	-	-	
	AB 4/2009	50	188	-	-	-	-	-	-	-	[1]
	BC 7/2013	20	-	-	-	-	-	-	-	-	
	ON 1/2013	20	-	-	-	-	-	-	-	-	
	QC 12/2012	50	188	-	-	-	-	-	-	-	[1]

[1]Absorbed through skin.

# <u>Mexico</u>

# **Occupational exposure limits**

Exposure limits
NOM-010-STPS (Mexico, 9/2000).
LMPE-PPT: 50 ppm 8 hours.
LMPE-PPT: 176 mg/m <sup>3</sup> 8 hours.
NOM-010-STPS (Mexico, 9/2000).
LMPE-PPT: 1000 ppm 8 hours.
LMPE-PPT: 2400 mg/m <sup>3</sup> 8 hours.
LMPE-CT: 3000 mg/m <sup>3</sup> 15 minutes.
LMPE-CT: 1260 ppm 15 minutes.
NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.
LMPE-PPT: 50 ppm 8 hours.
LMPE-PPT: 188 mg/m <sup>3</sup> 8 hours.

# Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# 8. Exposure controls/personal protection

Skin	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> <li>When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.</li> </ul>
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation.

# 9. Physical and chemical properties

Physical state	: Liquid. [Paste.]
Flash point	: Closed cup: -18°C (-0.4°F) [Setaflash.]
Auto-ignition temperature	: 252°C (485.6°F)
Flammable limits	: Lower: 1.2% Upper: 12.8%
Color	: Beige.
Odor	: Solvent. [Strong]
<b>Boiling/condensation point</b>	: 56°C (132.8°F)
Relative density	: 1.07365
Volatility	: 35.17% (w/w)
VOC (less water, less exempt solvents)	: 286 g/l
Solubility	: Insoluble in the following materials: cold water.

# 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	<ul> <li>Highly reactive or incompatible with the following materials: oxidizing materials</li> </ul>
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

# 11. Toxicological information

# United States

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

# Chronic toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

sult	Species	Score	Exposure	Observation							
es - Mild irritant	Rabbit	-	10 milligrams	-							
	Human	-		-							
			per million								
es - Mild irritant	Rabbit	-	10 microliters	-							
es - Moderate irritant	Rabbit	-	24 hours 20	-							
			milligrams								
		-		-							
n - Mild irritant	Rabbit	-		-							
n - Mild irritant	Rabbit	-		-							
es - Mild irritant	Rabbit	-		-							
• Mild invitent	Dabbit										
es - Mild Imlant	Raddil	-		-							
so. Sovere irritent	Dabbit										
	Rabbit	-		-							
n - Mild irritant	Pia	_		_							
	i ig	_		_							
n - Mild irritant	Rabbit	-		-							
n - Moderate irritant	Rabbit	-	24 hours 20	-							
			milligrams								
n - Moderate irritant	Rabbit	-	500	-							
			milligrams								
lee e e r r e e e r r	s - Mild irritant s - Mild irritant s - Mild irritant s - Moderate irritant s - Severe irritant n - Mild irritant s - Mild irritant s - Mild irritant s - Severe irritant n - Mild irritant n - Mild irritant n - Mild irritant	s - Mild irritant Rabbit s - Mild irritant Rabbit s - Mild irritant Rabbit s - Moderate irritant Rabbit s - Severe irritant Rabbit n - Mild irritant Rabbit s - Mild irritant Rabbit s - Mild irritant Rabbit s - Mild irritant Rabbit n - Mild irritant Rabbit	s - Mild irritant s - Mild irritant Rabbit - - - - - - - - - - - - -	s - Mild irritant s - Mild irritant Rabbit - 10 milligrams - 186300 parts per million - 10 microliters per million - 10 microliters - 10 microliters - 24 hours 20 milligrams - 24 hours 20 milligrams - 20 milligrams - 20 milligrams - 20 milligrams - 20 milligrams - 24 hours 500 milligrams - Mild irritant Rabbit - 24 hours 500 milligrams - Mild irritant Rabbit - 0.5 minutes 100 milligrams - Mild irritant Rabbit - 0.5 minutes 100 milligrams - Mild irritant Rabbit - 24 hours 2 milligrams - Mild irritant Rabbit - 24 hours 2 milligrams - Mild irritant Rabbit - 24 hours 2 milligrams - Mild irritant Rabbit - 24 hours 250 microliters - Mild irritant Rabbit - 24 hours 250 microliters - Mild irritant Rabbit - 24 hours 250 microliters - Mild irritant Rabbit - 24 hours 20 milligrams - Mild irritant Rabbit - 24 hours 20 milligrams - Moderate irritant Rabbit - 24 hours 20 milligrams - Moderate irritant Rabbit - 24 hours 20 milligrams - 500							

### **Conclusion/Summary**

:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
:	Moderately irritating to eyes.

# Respiratory

: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

# <u>Sensitizer</u>

Skin

Eyes

No known significant effects or critical hazards.

# **Carcinogenicity**

# **Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
acetone	A4	-	-	-	-	-
toluene	A4	3	-	-	-	-

# Mutagenicity

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
toluene	-	-	-	Rat	Inhalation	-

**Conclusion/Summary** 

: Reproductive toxicant - female

### <u>Canada</u>

Acute toxicity

# 6/6/2014.

Product/ingredient name	Result	Species	Dose	Exposure
n-hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	F

# Chronic toxicity

No known significant effects or critical hazards.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	F	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	F	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	F	435 milligrams	-
	Skin - Moderate irritant	Rabbit	F	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit		500 milligrams	-

# Conclusion/Summary Skin : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Eyes : Moderately irritating to eyes. Respiratory : High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

# <u>Sensitizer</u>

No known significant effects or critical hazards.

# **Carcinogenicity**

# **Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
acetone	A4	-	-	-	-	-
toluene	A4	3	-	-	-	-

# **Mutagenicity**

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	-	Development toxin	Species	Dose	Exposure
toluene	-	-	-	Rat	Inhalation	-

# **Conclusion/Summary**

: Reproductive toxicant - female

# **Mexico**

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

# **Chronic toxicity**

No known significant effects or critical hazards.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
acetone	Eyes - Mild irritant	Human	-	186300 parts	-
				per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100	
		<b>D</b> 11 11		milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
		D-bb't		Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Ohim Mild inside at	Dia		milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Ckin Mild irritant	Dabbit		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
	Skin Modorato irritant	Dabbit		milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Skin Modorato irritant	Dobbit		milligrams 500	
	Skin - Moderate irritant	Rabbit	-		-
				milligrams	

# **Conclusion/Summary**

Skin

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

# Eyes

Respiratory

: Moderately irritating to eyes.

: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

# Sensitizer

No known significant effects or critical hazards.

# 6/6/2014.

# **Carcinogenicity**

# **Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
acetone	A4	-	-	-	-	-
toluene	A4	3	-	-	-	-

# **Mutagenicity**

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
toluene	-	-	-	Rat	Inhalation	-
Conclusion/Summary	: Reproductiv	ve toxicant - fe	emale			

# 12. Ecological information

# Ecotoxicity

: No known significant effects or critical hazards.

# **United States**

# Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
n-hexane	Acute LC50 113000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

# Persistence/degradability

No known significant effects or critical hazards.

# <u>Canada</u>

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
n-hexane	Acute LC50 113000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
acetone	Acute EC50 20.565 mg/l Marine water Acute LC50 6000000 μg/l Fresh water Acute LC50 10000 μg/l Fresh water Acute LC50 100 mg/l Fresh water	Algae - Ulva pertusa Crustaceans - Gammarus pulex Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling,	96 hours 48 hours 48 hours 96 hours
	Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water	Weanling) Algae - Ulva pertusa Crustaceans - Daphniidae Daphnia - Daphnia magna - Neonate	96 hours 21 days 21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
toluene	Acute EC50 433 ppm Marine water Acute EC50 12500 µg/l Fresh water	Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

# Persistence/degradability

No known significant effects or critical hazards.

# <u>Mexico</u>

# Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure	
n-hexane	Acute LC50 113000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours	
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours	
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days	
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days	
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days	
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours	
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours	
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours	
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours	

Titebond Heavy Duty Construction Adhesive

# 12. Ecological information

Chronic NOEC 1000 µg/l Fresh water

subcapitata Daphnia - Daphnia magna

21 days

Persistence/degradability

No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	1133	ADHESIVES, containing flammable liquid RQ (toluene, n- hexane)	3		3	Reportable quantity12163.7 lbs / 5522.3kg [1358.8 gal / 5143.5 L]Package sizesshipped in quantitiesless than the productreportable quantity arenot subject to the RQ(reportable quantity)transportationrequirements.RemarksLimited quantity
TDG Classification	1133	ADHESIVES, containing flammable liquid	3	111		Remarks Limited quantity
Mexico Classification	1133	ADHESIVES, containing flammable liquid	3	III		Remarks Limited quantity

# 14. Transport information

Titebond Heavy Du	ty Construct	ion Adhesive			
14. Transpo	rt inform	nation			
ADR/RID Class	1133	ADHESIVES, containing flammable liquid	3		Special provisions 640 (E) Tunnel code (D/E) Remarks Limited quantity
IMDG Class	1133	ADHESIVES, containing flammable liquid	3		Remarks           Limited quantity
IATA-DGR Class	1133	ADHESIVES, containing flammable liquid	3		Remarks           Limited quantity
PG* : Packing group					
15. Regulato	ory infor	mation			
United States					
HCS Classification	n :	Flammable liquid Toxic material Irritating material Target organ effects			
U.S. Federal regul	ations :	raiget organ encote			
		TSCA 8(a) CDR Exempt/F	Partial exemp	<b>tion</b> : Not dete	ermined
Clean Air Act Se (b) Hazardous Ai		Delayed (chronic) health h	ts were found. Ientification:		are listed or exempted. mmediate (acute) health hazard
Pollutants (HAPs	5)				
Clean Air Act See Class I Substanc		Not listed			

Clean Air Act Section 602: Not listedClass II Substances: Not listedDEA List I Chemicals: Not listed

(Precursor Chemicals) DEA List II Chemicals : Listed

(Essential Chemicals)

SARA 313

# 15. Regulatory information

	Product name	CAS number	Concentration
Form R - Reporting requirements	n-hexane acetone toluene	110-54-3 67-64-1 108-88-3	10 - 25 10 - 25 5 - 10
Supplier notification	n-hexane toluene	110-54-3 108-88-3	10 - 25 5 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	
Massachusetts	: The following components are listed: HEXANE; ACETONE; TOLUENE
New York	: The following components are listed: Hexane; Acetone; 2-Propanone; Toluene
New Jersey	<ul> <li>The following components are listed: n-HEXANE; HEXANE; ACETONE;</li> <li>2-PROPANONE; TOLUENE; BENZENE, METHYL-</li> </ul>
Pennsylvania California Prop. 65	: The following components are listed: HEXANE; 2-PROPANONE; BENZENE, METHYL-

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 μg/day (ingestion)

### Canada

:	Class B-2: Flammable liquid
	Class D-2A: Material causing other toxic effects (Very toxic).
	Class D-2B: Material causing other toxic effects (Toxic).

# **Canadian lists**

**Canadian NPRI** 

**Canada inventory** 

WHMIS (Canada)

: The following components are listed: n-Hexane; Volatile organic compounds; Toluene

# **CEPA Toxic substances**

- : The following components are listed: Volatile organic compounds
- : Not determined.

t

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

# **Mexico**

Classification



Int	erna	<b>ational</b>	reg	ulations

International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory: Not determined.
	Korea inventory: Not determined.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan inventory (CSNN): Not determined.

# 15. Regulatory information

Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule Il Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

# 16. Other information

Label requirements	: EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.		
Hazardous Material Information System (U.S.A.)	: Health		



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing	: 6/6/2014.
Date of issue	: 6/6/2014.
Date of previous issue	: 9/16/2013.
Version	: 2

Indicates information that has changed from previously issued version.

Notice to reader

Titebond Heavy Duty Construction Adhesive

# 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# Franklin International MATERIAL SAFETY DATA SHEET

MSDS Name: Titebond II Premium Wood Glue MSDS Number: 5006 Revision Date: 5/24/06

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name:Titebond II Premium Wood GlueCAS Number:noneHMIS Hazard Rating:Health: 1 Fire: 1 Reactivity: 0 Company Identification: Franklin International 2020 Bruck Street Columbus OH 43207 Franklin Technical Services Contact: (800) 877-4583 (614) 445-1493 Telephone/Fax: Emergency Phone (24 Hour): Franklin Security (614) 445-1300 Chemtrec (24 Hour): (800) 424-9300 Chemtrec International: (703) 527-3887 CROSSLINK POLYVINYL ACETATE Product Class Product Use: wood glue Product Code: 5000 Division: Construction Adhesives & Sealants SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS Hazardous Ingredients CAS Number Percent Product contains no hazardous ingredients or they are below reportable levels. OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable. SECTION 3 - HAZARD IDENTIFICATION EMERGENCY OVERVIEW: Cream colored water-based adhesive. Slippery in the wet state. ROUTES OF ENTRY: Ingestion: Yes Inhalation: Yes Skin: Yes Eye: Yes INHALATION: Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract. No reported incidents of adverse health affects resulting from inhalation of vapors at room temperature. INGESTION: No hazard expected in normal industrial use. Ingestion is not a likely route of exposure. SKIN: Prolonged or repeated skin contact can cause irritation. EYE:

file://jimepicpc/Users/Public/Epic%20Environmental%20Services%20(USE)/Product%2... 10/19/2015

Page 2 of 4

Substance may cause moderate eye irritation. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None identified. CARCINOGENICITY: IARC: No NTP: No OSHA: No REPRODUCTIVE TOXICITY: This product has not been evaluated for reproductive toxicity. SECTION 4 - FIRST AID MEASURES INHALATION: Remove patient to fresh air, if discomfort persists seek medical attention. INGESTION: Call poison control center immediately. Follow their specific instructions. Do not induce vomiting. SKIN: Wash with soap and water. Contact a physician if irritation develops or persists. EYE: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES Flammability Class (OSHA) IIIB Flash Point: Not Applicable Not Applicable Explosive Range: EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product. HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon. FIRE FIGHTING PROCEDURES: Wear a NIOSH approved self-contained breathing apparatus. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES: Use inert absorbent to dike the spill. Keep away from drains. CLEAN-UP: If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container. SECTION 7 - HANDLING AND STORAGE HANDLING: Empty drums should be completely drained, properly bunged and promptly returned to a reconditoner, or properly disposed of. Use only in well ventilated area. STORAGE: Keep from freezing. Store at temperatures between 50 F and 90 F. PRECAUTIONARY STATEMENT: Keep out of the reach of children.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION Occupational Exposure Limits ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL ENGINEERING CONTROLS: Use local exhaust as needed to maintain occupational exposure limits. OTHER: Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower. RESPIRATORY PROTECTION: Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134. EYE PROTECTION: Chemical splash goggles (ANSI Z87.1 or approved equivalent). SKIN PROTECTION: Where skin contact can occur, wear impervious gloves. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES Form: Liquid Appearance/Color: cream Mild Odor: Solubility (in water): Dispersible in water 3. pH Value: Boiling Range/Point: 210.øF Evaporation Rate: Slower than n-Butyl Acetate % Volatile: 52.8 1.09 Specific Gravity: 5.5 g/l VOC: SECTION 10 - STABILITY AND REACTIVITY Stability: This product is stable Hazardous Polymerization: Hazardous polymerization will not occur CONDITIONS TO AVOID: None. INCOMPATIBLITY: Strong acids and bases. HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon may be released during combustion. SECTION 11 - TOXICOLOGICAL INFORMATION Acute and chronic health effects are not expected as long as good industrial hygeine and safety precautions are followed. SECTION 12 - ECOLOGICAL INFORMATION This formulation has not been tested for environmental effects. SECTION 13 - DISPOSAL CONSIDERATIONS WASTE DISPOSAL: Disposal of this product must comply with all applicable federal, state and local regulations. CONTAINER DISPOSAL:

Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT	INFORMATION
UN Number	none
UN Pack Group	N/A
UN Class	Nonhaz
ICAO/IATA Class	Nonhazardous
IMDG Class	Nonhazardous
Shipping Name	Nonhazardous

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory): All components of this product are listed on the TSCA inventory except as exempted. PENNSYLVANIA: Special hazardous components required to be listed at .01% or more: formaldehyde; formaldehyde; 50-00-0 Non-hazardous components required to be listed at 3% or more: polyvinyl acetate emulsion 113408-93-8; polyvinyl alcohol 25213-24-5 NEW JERSEY: polyvinyl acetate emulsion 113408-93-8; water 7732-18-5; aluminum chloride 7784-13-6; polyvinyl alcohol 25213-24-5; n-methylolacrylamide 924-42-5

SECTION 16 - OTHER INFORMATION

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

# **Franklin International**

# **Material Safety Data Sheet**

**Titebond Original Wood Glue** 

# 1. Product and company identification

Synonym	: None known.
Address	: Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	: Franklin Technical Services
Telephone	: (800) 877-4583
In case of emergency	: Franklin Security (614) 445-1300
Reference number	: 2213
Product code	: 5062
Date of revision	: 5/22/2014.
Print date	: 5/22/2014.
Chemtrec (24 Hour)	: (800) 424 - 9300
Chemtrec International	: (703) 527 - 3887
Chemical family	: Adhesive.
Product use	: Wood glue
Product type	: Aliphatic resin

# 2. Hazards identification

Emergency overview	
Physical state	Liquid.
Color	Yellow.
Odor	Faint odor.
Signal word	CAUTION!
Hazard statements	MAY CAUSE EYE AND SKIN IRRITATION.
Precautionary measures	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	Eye contact. Inhalation. Ingestion.
Potential acute health effect	
Inhalation	Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Skin	Slightly irritating to the skin. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Eyes	Moderately irritating to eyes. This product may irritate eyes upon contact.
Potential chronic health effe	
Chronic effects	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.

# 2. Hazards identification

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: May cause damage to the following organs: skin, eyes.

# Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: irritation watering redness
Medical conditions aggravated by over-	: None known.

exposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

# 4. First aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</li> </ul>
Inhalation	<ul> <li>Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.</li> </ul>
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician	<ul> <li>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>

# 5. Fire-fighting measures

Flammability of the product	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media		
Suitable	:	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	:	None known.

Titebond Original Wood Glue 5. Fire-fighting measures	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
6. Accidental release measures	

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small spill	: Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb with an inert material.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Store between the following temperatures: 10 to 32.222°C (50 to 90°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

# <u>Canada</u>

Occupational exposure limits No exposure limit value known.

# <u>Mexico</u>

Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Titebond Original Wood Glue

# 8. Exposure controls/personal protection

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Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Engineering measures	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eyes	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

# 9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: Not applicable.
Color	: Yellow.
Odor	: Faint odor.
рН	: 3.8 to 4.7
Boiling/condensation point	: 98.889°C (210°F)
Relative density	: 1.1
Volatility	: 54.1% (w/w)
Evaporation rate	: <1 (butyl acetate = 1)
VOC (less water, less exempt solvents)	: 10.7 g/l
Dispersibility properties	: Dispersible in the following materials: cold water and hot water.
Physical/chemical properties comments	: VOC = 10.7 g/L

# 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

# 11. Toxicological information

# **United States**

# Acute toxicity

No known significant effects or critical hazards.

# **Chronic toxicity**

No known significant effects or critical hazards.

# Irritation/Corrosion

## **Conclusion/Summary**

Skin	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.</li> </ul>
Eyes	: This product may irritate eyes upon contact.

: This product may irritate eyes upon contact.

# Respiratory

- : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

# **Sensitizer**

No known significant effects or critical hazards.

## **Carcinogenicity**

No known significant effects or critical hazards.

## **Mutagenicity**

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# Reproductive toxicity

No known significant effects or critical hazards.

# Canada

# Acute toxicity

No known significant effects or critical hazards.

## **Chronic toxicity**

No known significant effects or critical hazards.

# Irritation/Corrosion

## **Conclusion/Summary**

Skin

- : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Eyes
- : This product may irritate eyes upon contact.
- Respiratory : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

# **Sensitizer**

No known significant effects or critical hazards.

# Carcinogenicity

No known significant effects or critical hazards.

# 5/22/2014.

# 11. Toxicological information

# **Mutagenicity**

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

No known significant effects or critical hazards.

# <u>Mexico</u>

# Acute toxicity

No known significant effects or critical hazards.

# **Chronic toxicity**

No known significant effects or critical hazards.

dermatitis.

# Irritation/Corrosion

# **Conclusion/Summary**

Skin

# Eyes

Respiratory

# <u>Sensitizer</u>

No known significant effects or critical hazards.

# **Carcinogenicity**

No known significant effects or critical hazards.

# Mutagenicity

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

No known significant effects or critical hazards.

# 12. Ecological information

# Ecotoxicity

: No known significant effects or critical hazards.

: This product may irritate eyes upon contact.

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

# United States

atic acatovicity

# Aquatic ecotoxicity

No known significant effects or critical hazards.

# Persistence/degradability

No known significant effects or critical hazards.

# <u>Canada</u>

# Aquatic ecotoxicity

No known significant effects or critical hazards.

# Persistence/degradability

No known significant effects or critical hazards.

# <u>Mexico</u>

# Aquatic ecotoxicity

No known significant effects or critical hazards.

# Persistence/degradability

No known significant effects or critical hazards.

# **12. Ecological information**

Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

# 15. Regulatory information

United States

: Irritating material

U.S. Federal regulations

**HCS Classification** 

TSCA 8(a) PAIR: Not applicable

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. SARA 302/304: No products were found. SARA 311/312 Hazards identification: Immediate (acute) health hazard

# 15. Regulatory information

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Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	-	Not listed
Clean Air Act Section 602 Class I Substances	1	Not listed
Clean Air Act Section 602 Class II Substances	1	Not listed
DEA List I Chemicals (Precursor Chemicals)	1	Not listed
DEA List II Chemicals (Essential Chemicals)	1	Not listed
State regulations		
Massachusetts	1	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	None of the components are listed.
Pennsylvania	:	None of the components are listed.
<u>Canada</u>		
WHMIS (Canada)	1	Not controlled under WHMIS (Canada).
<u>Canadian lists</u>		
Canadian NPRI	1	None of the components are listed.
<b>CEPA</b> Toxic substances	1	None of the components are listed.
Canada inventory	1	Not determined.
This product has been classi	fio	d in accordance with the bazard criteria of the Controlled Products Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

# <u>Mexico</u>

Classification	:
	1 Flammability
	Health 1 0 Reactivity
	Special
International regulations	
International lists	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

Titebond Original Wood Glue

16. Other information				
Label requirements	: MAY CAUSE EYE AND SKIN IRRITATION.			
Hazardous Material Information System (U.S.A.)	:			
	Health	1		
	Flammability	1		
	Physical hazards	0		

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing	: 5/22/2014.
Date of issue	: 5/22/2014.
Date of previous issue	: 5/20/2014.
Version	: 2

Indicates information that has changed from previously issued version.

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# Franklin International MATERIAL SAFETY DATA SHEET

MSDS Name: Titebond Weathermaster Clear 000 MSDS Number: 44011 Revision Date: 4/6/07

SECTION 1 - CHEMICAL PRODUCT Product Name: CAS Number: HMIS Hazard Rating:	AND COMPANY IDENTIFICATION Titebond Weathermaster Clear 000 none Health: 2 Fire: 1 Reactivity: 0
Company Identification:	Franklin International 2020 Bruck Street Columbus OH 43207
Contact: Telephone/Fax: Emergency Phone (24 Hour):	Franklin Technical Services (800) 877-4583 (614) 445-1493 Franklin Security (614) 445-1300
Chemtrec (24 Hour): Chemtrec International:	(800) 424-9300 (703) 527-3887
Product Class Product Use: Product Code:	elastomeric sealant caulk sealant Not applicable
Division:	Construction Adhesives & Sealants
SECTION 2 - COMPOSITION AND Hazardous Ingredients	INFORMATION ON INGREDIENTS CAS Number Percent
METHYL OXIMINO SILANE	22984-54-9 5.00
Di Methoxymethyl Silane	83817-72-5 3.00
OSHA PELs & ACGIH TLVs are l	isted in Section 8 where applicable.

SECTION 3 - HAZARD IDENTIFICATION

# EMERGENCY OVERVIEW:

CAUTION: IRRITANT. Direct contact with uncured caulk irritates eyes and skin. Overexposure to vapor may irritate eyes, nose and throat. Caulk may release methyl ethyl ketoxime (CAS# 96-29-7) during cure. Fully cured caulk is nonhazardous. KEEP OUT OF THE REACH OF CHILDREN. Material is a paste-like material.

ROUTES OF ENTRY: Inhalation: yes Ingestion: yes Skin: yes Eye: yes INHALATION: May be irritating to upper respiratory tract. INGESTION: Ingestion is not a probable route of exposure. Single dose oral toxicity is considered to be extremely low. No hazard expected from swallowing small amounts incidental to normal handling operations. Ingestion may cause gastrointestinal irritation. SKIN: Prolonged or repeated skin contact may cause moderate irritation. EYE: Substance may cause moderate eye irritation. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None identified. CARCINOGENICITY: IARC: No NTP: No OSHA: No **REPRODUCTIVE TOXICITY:** None currently known. TARGET ORGANS: Eyes, skin, and respiratory tract. SECTION 4 - FIRST AID MEASURES INHALATION: Remove to fresh air. If difficulty persists, seek medical attention. INGESTION: Call poison control center immediately. Follow their specific instructions. SKIN: Wash with soap and water or waterless cleaner. Contact a physician if irritation develops or persist. EYE: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES Flammability Class (OSHA) IIIB Flash Point: > 200.øF Not available Not applicable

Explosive Range:

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product. FIRE FIGHTING PROCEDURES: Wear a NIOSH approved self contained breathing apparatus. Wear appropriate personal protective equipment. Product will not burn but may spatter if temperature exceeds boiling point of water. After water evaporates, remaining material will burn. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES: Use inert absorbent to dike the spill. Keep away from drains. CLEAN-UP: Spread absorbent over material and scrape up material/absorbent and place in an approved container. If product has dried scrape up and place in an approved container. SECTION 7 - HANDLING AND STORAGE HANDLING: Wash thoroughly after handling. Do not get material in eyes. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin. STORAGE: Store in a cool, dry place. Avoid contact with moist air. PRECAUTIONARY STATEMENT: Keep out of the reach of children. SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION Occupational Exposure Limits ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL METHYL OXIMINO SILANE N/est N/est N/est N/est N/est Di Methoxymethyl Silane N/est N/est N/est N/est N/est Note: Product evolves MEKO (CAS# 96-27-7) when exposed to moisture or humid air. The ACGIH TLV for MEKO is 10.00 ppm with a 15-minute STEL of 10 ppm. ENGINEERING CONTROLS: Use appropriate ventilation as needed to maintain occupational exposure limits. OTHER: Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.

**RESPIRATORY PROTECTION:** Respiratory protection is not expected to be necessary under normal use. Follow requirements for respiratory protection in OSHA 1910.134. EYE PROTECTION: Chemical splash goggles (ANSI Z87.1 or approved equivalent). SKIN PROTECTION: Where skin contact can occur, wear impervious gloves. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES Form: Paste Translucent Appearance/Color: Odor: Mild Solubility (in water): Nil 5-7 pH Value: Boiling Range/Point: Not Available Slower than n-Butyl Acetate Evaporation Rate: % Volatile: < 4 Specific Gravity: 1.05 VOC: 46.0 g/l SECTION 10 - STABILITY AND REACTIVITY Stability: This product is stable Hazardous Polymerization: Hazardous polymerization will not occur CONDITIONS TO AVOID: None known. INCOMPATIBLITY: Water or damp air; product cures in the presence of moisture. Avoid oxidizing materials. HAZARDOUS DECOMPOSITION PRODUCTS: Methyl ethyl ketoxime (CAS# 96-29-7) is released on hydrolysis. SECTION 11 - TOXICOLOGICAL INFORMATION Inhalation of MEKO vapor is irritating to the eyes and respiratory system. Direct and prolonged contact with the skin is irritating. SECTION 12 - ECOLOGICAL INFORMATION This formulation has not been tested for environmental effects. SECTION 13 - DISPOSAL CONSIDERATIONS WASTE DISPOSAL: Disposal of this product must comply with all applicable federal, state and local regulations. CONTAINER DISPOSAL:

Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT	INFORMATION
UN Number	None
UN Pack Group	N/A
UN Class	Nonhaz
ICAO/IATA Class	Nonhazardous
IMDG Class	Nonhazardous
Shipping Name	Nonhazardous

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory): All components of this product are listed on the TSCA inventory except as exempted. PENNSYLVANIA: Nonhazardous components required to be listed at 3% or more: methyl oximino silane 22984-54-9; dimethoxymethyl silane 83817-72-5 NEW JERSEY: methyl oximino silane 22984-54-9; dimethoxymethyl silane 83817-72-5; ethoxy tri(ethyl methyl ketoxime) silane 101371-00-0; methyl ethyl ketoxime 96-29-7; diethoxy di(ethyl methyl ketoxime) silane 93917-75-0

SECTION 16 - OTHER INFORMATION

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

# **SDS #:** 824.00 **Revision Date:** March 25, 2014

Pictograms

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Toluene

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

DANGER

# SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302).

Hazard class: Aspiration hazard (Category 1). May be fatal if swallowed and enters airways (H304).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).

Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336). Avoid breathing mist, vapors or spray (P261).

Hazard class: Reproductive toxicity (Category 2). Suspected of damaging fertility or the unborn child (H361). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Specific target organ toxicity, repeated exposure (Category 2). May cause damage to organs through prolonged or repeated exposure (H373). Do not breathe mist, vapors or spray (P260). Do not eat, drink or smoke when using this product (P270).

# SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Toluene	108-88-3	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	94.14	
Synonyms: Methyl benzene; Toluol				

# SECTION 4 — FIRST AID MEASURES

Get medical advice or attention if you feel unwell (P314).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Immediately call a POISON CENTER or physician (P301+P310). Do NOT induce vomiting (P331).

# SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.	NFPA CODE
Flash point: 4 °C Flammable limits: Lower: 1.1% Upper: 7.1% Autoignition Temperature: 480 °C	H-2
Dangerous fire risk.	F-3
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0
In case of the: Ose a ut-class dry chemical file extinguisher (1570+1578).	<b>K-</b> 0

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

## SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor<sup>TM</sup> can. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or in a well-ventilated area. Use explosion-proof electrical and ventilating equipment (P241).

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or in a well-ventilated area.

Exposure guidelines: PEL 200 ppm, Ceiling 300 ppm (OSHA); TLV 20 ppm (ACGIH)

#### - PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9** -

Colorless liquid; benzene-like odor. Soluble: Alcohol and ether. Insoluble in water. Boiling point: 111 °C Melting point: -93 °C Specific gravity: 0.866 Vapor density: 3.2 Vapor pressure: 22 mmHg

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers. Shelf life: Good, if stored properly.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, severe irritant, lung irritation, chest pain and edema, which may be fatal. Chronic effects: N.A. Target organs: Brain, liver, kidneys, bladder.

ORL-RAT LD<sub>50</sub>: 636 mg/kg IHL-RAT LC<sub>50</sub>: 26700 ppm/1H SKN-RBT LD<sub>50</sub>: 12124 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

# SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #18b is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Toluene. Hazard class: 3, Flammable liquid. UN number: UN1294.

#### N/A = Not applicable

# **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (203-625-9), RCRA code U220.

#### **SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S)

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals. Revision Date: March 25, 2014

# MATERIAL SAFETY DATA SHEET FOR TOUCH 'N SEAL® U2-12, U2-22, U2-200, U2-600 A COMPONENT & B COMPONENT

Part # of this MSDS: 4004550096

# **MATERIAL SAFETY DATA SHEET**

# **SECTION I - PRODUCT INFORMATION**

# Product: Touch 'n Seal® U2-12, U2-22, U2-200, U2-600 A Component and B Component

Manufacturer:

Convenience Products 866 Horan Drive Fenton, MO 63026-2416 U.S.A. Emergency Telephone<br/>NumberChemtrec:<br/>1-800-424 9300Information Telephone<br/>Number (during regular<br/>business hours):1-636-349 5333Revised on 9/1/05

Prepared by Jay ZHANG

Approved by Joe Lott

# SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

# A Component

CHEMICAL NAME	CAS NO.	OSHA PEL	ACGIH TLV	PERCENTAGE
Polymeric Diphenylmethane Diisocyanate (MDI)	9016-87-9	NE*	NE*	40-55
4,4-Diphenylmethane Diisocyanate	101-68-8	0.02ppm CEIL	0.005ppm TWA	40-55
Chlorodifluoromethane (HCFC-22)	75-45-6	1,000ppm TWA	1,000ppm TWA	6 - 18

# **B** Component

CHEMICAL NAME	CAS NO.	OSHA PEL	ACGIH TLV	PERCENTAGE
Polyol Blend	Proprietary Mixture NE*	NE*	NE*	35-75
Flame Retardant	Proprietary Mixture NE*	NE*	NE*	3- 20
Catalyst	Proprietary Mixture NE*	NE*	NE*	< 1
Chlorodifluoromethane (HCFC-22)	75-45-6	1,000ppm TWA	1,000ppm TWA	14 - 33

\*Not established

None of the ingredients in both A and B component is listed by IARC, NTP, OSHA, or ACGIH as a carcinogenic substance.

Hazard Rating: HMIS	A Component	Health 2	Flammability 1	Reactivity 1
	B Component	Health 1	Flammability 1	Reactivity 0

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS					
	A	Component	B Component		
Boiling Point	HCFC-22 MDI	-41.4°F at 1 ATM 392°F at 5 mm Hg	HCFC-22 Polyol Blend	-41.4°F at 1 ATM NE*	
Vapor Pressure	HCFC-22 MDI	136 psia at 70°F 0.00016mmHg@68°F	HCFC-22 Polyol Blend	136 psia at 70°F NE*	
Vapor Density (AIR = 1)	HCFC-22	2.98 at 1 ATM	HCFC-22	2.98 at 1 ATM	
Specific Gravity $(H_2 0 = 1)$	HCFC-22 MDI	1.17 at 86°F 1.2	HCFC-22 Polyol Blend	1.17 at 86°F 1.1	
Flash Point	HCFC-22 MDI	None > 400°F closed cup	HCFC-22 Polyol Blend	None NE*	
Solubility in Water	Insoluble		Soluble		
Appearance and Odor	Dark brown color with earthy, musty odor		Clear, off yellow viscous liquid with slight odor		

\*Not established

# **SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

# Extinguishing Media

<u>U2 units in boxes</u>: Water fog, foam, CO<sub>2</sub>, or dry chemical

Cured foam: Water fog, foam, CO<sub>2</sub>, or dry chemical

# **Fire Fighting Procedures**

<u>U2 units in boxes</u>: Keep containers cool. Wear self-contained breathing apparatus and turnout gear. Hazardous decomposition products include CO, CO<sub>2</sub>, oxides of nitrogen, and traces of HCN, HF, HCl, Tin Oxide, Cl, PO & Silicon Dioxide.

<u>Cured foam:</u> Wear self-contained breathing apparatus. Hazardous decomposition products include CO, CO<sub>2</sub>, oxides of nitrogen, and traces of HCN, HF, HCI, Tin Oxide, CI, and PO.

# Unusual Hazards

<u>Units in boxes:</u> High temperatures will increase the pressure in the tanks, which may lead to rupturing. <u>Cured foam</u>: This product is combustible. Do not expose to high heat, sparks, or open flame.

# SECTION V - REACTIVITY DATA

# Stability

U2 units in boxes are considered stable under normal storage and handling conditions. Do not store above 120°F. The mixing of the "A" Component and "B" Component during use produces heat and expansion. Cured foam will slowly deteriorate when exposed to UV light.

Incompatibility

A Component:	Water, alcohols, strong bases, finely powdered metal such as aluminum, Magnesium or zinc, and strong oxidizers.
B Component:	Strong alkali or alkaline earth metals, finely powdered metals such as Aluminum, magnesium, or zinc, strong oxidizers, and strong acids.

# /Hazards to Avoid:

Avoid high heat; i.e., flames, extremely hot metal surfaces, heating elements, combustion engines, etc. Contaminated A component with water may form  $CO_2$ . Do not dispense only one tank at a time. Both A & B components must be used together.

# SECTION VI – TOXICOLOGICAL INFORMATION

Concentration of ingredients (section II) must be considered to determine effects of the "A" component mixture and "B" component mixture. Although these mixtures have not been tested, it is assumed that the mixture presents the same health hazards as do the ingredients present at 1% or higher level. Proper

personnel protection and adequate ventilation should be provided to avoid exceeding the exposure limits listed in section II.

**Inhalation** MDI vapors from A component or spray mist may cause irritation of the mucous membranes of the nose, throat or trachea, which may cause chest discomfort, coughing, and allergic asthma-like sensitivity. Air-borne overexposure well above the PEL may result additionally in eye irritation, headache, chemical bronchitis, asthma-like findings or pulmonary edema.

Inhaling concentrated fluorocarbons from A component and/or B component can cause unconsciousness, drowsiness, respiratory depression, rapid heartbeat and other symptoms. Persons with preexisting heart disease may be at increased risk from exposure.

**Skin Contact:** with both A component and B component may result in localized irritation, reddening or swelling. Prolonged or repeated exposure may lead to sensitization and/or dermatitis. Uncured foam forms a quick bond with skin and hard to remove after it is cured.

**Eyes Contact:** with MDI of A component may result in eye irritation and mild corneal opacity due to adhesive character. B component may have irritating effect to eyes.

**Ingestion:** A component may cause irritation of mucous membranes in the mouth and digestive tract. B component may have slight effect of such.

# **Emergency and First Aid Procedures**

# A component or B component material

<u>Skin</u> - If frostbitten, warm skin slowly with water; otherwise, wash affected areas with soap and water at least 15 minutes. Remove contaminated clothing and launder before reuse. Get immediate medical attention.

<u>Eves</u> - Immediately flush with large quantities of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Get immediate medical attention. <u>Ingestion</u> - If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention. <u>Inhalation</u> - Remove to fresh air. Get immediate medical attention.

# Foam

<u>Skin</u> - Remove wet foam immediately from skin with soft cloth, and then clean with acetone or nail polish remover. If irritation persists get medical attention. Dried foam is hard to remove from skin. If foam dries on skin, apply generous amounts of petroleum jelly or lanolin, leave on for one hour, wash thoroughly, and repeat process until foam is removed. Do not attempt to remove dried foam with solvents. <u>Eye</u> - In case of eye contact, flush with water for 15 minutes. Get immediate medical attention. Ingestion - In case of ingestion, get immediate medical attention.

# SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

# "A" Side

<u>Spills/Leaks</u> - Evacuate and ventilate spill area, dike spill to prevent entry into water system, wear full protective equipment including respiratory equipment during clean up.

If transportation spill involved, call CHEMTREC @ 1-800-424-9300. If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal. Absorb the isocyanate with sawdust or other absorbent and shovel into open top containers. Do not make pressure tight. Transport to a well-ventilated area (outside) and treat with neutralizing solution consisting of a mixture of 90% water, 3-8% ammonia and 2-7% detergent. Add about 10 parts of neutralizer per part of isocyanate with mixing. Allow standing for 48 hours letting evolved carbon dioxide escape. Decontaminate spill area using neutralizing solution and letting stand over affected areas for at least 10 minutes.

<u>Waste Disposal</u> - Dispose according to federal, state, and local regulations. - Do not discharge into waterways or sewer systems.

Container Disposal - Dispose according to federal, state, and local regulations.

# "B" Side

<u>Spills/Leaks</u> - Evacuate and ventilate spill area, dike spill to prevent entry into water system, wear full protective equipment including respiratory equipment during clean up. If transportation spill involved, call CHEMTREC @ 1-800-424-9300. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal. Absorb the material with sawdust or other absorbent and shovel into containers and transport to a well-ventilated area.

<u>Waste Disposal</u> - Do not discharge into waterways or sewer systems. Dispose according to federal, state, and local regulations.

Container Disposal - Dispose according to federal, state, and local regulations

**Storage:** Store in a cool, dry place. Ideal storage temperature is 60°F - 80°F. Storage above 90°F will shorten the shelf life. Since the containers are pressurized, do not store above 120°F (49°C) in order to avoid excessive pressure build up and possible container rupture. Protect containers from physical abuse.

# SECTION VIII - PERSONAL PROTECTION

**Respiratory Protection** Use only in well-ventilated areas. Wear NIOSH / MSHA approved, positive pressure, supplied air respirator when vapor level is exceed the guideline listed in section II in this MSDS. **Clothing** Wear rubber butyl or nitrite rubber gloves, coveralls, long sleeve shirts, and head covering to avoid skin contact. Contaminated equipment / clothing should be cleaned after each use or disposed. **Eye Protection** Wear face shield and goggles, or safety glasses.

Ventilation If ventilation is not enough to maintain P.E.L. exhaust area.

# **SECTION IX - OTHER REGULATORY INFORMATION**

**TSCA** – Inventory Status: all chemicals contained in this product are listed on TSCA inventory. **SARA** - This product contains a toxic chemical that may be subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR 372).

NAME	CAS NO.	AMOUNT
Diphenylmethane Diisocyanate	101-68-8	40-55% of "A" Side
Chlorodifluoromethane (HCFC-22)	75-45-6	6-18% of "A" Side
Chlorodifluoromethane (HCFC-22)	75-45-6	14-33% of "B" Side

**CERCLA** - Reportable Quantity - yes ...(40CFR 302.4).....(5000 lb. of Methylene bisphenyl isocyanate) **RCRA Hazardous Waste** - No

# **DOT Proper Shipping Name**

U2-12 & U2-22 Consumer Commodity ORM-D

**U2-200 & U2-600** Compressed gas, NOS (Chlorodifluoromethane, Nitrogen)

# Diphenylmethane Diisocyanate (cas# 101-68-8) is cited on certain state lists as follow:

NJ2=New Jersey environmental hazardous substance (present at greater than or equal to 1.0%)

NJ3=New Jersey workplace hazardous substance (present at greater than or equal to 1.0%)

PA1=Pennsylvania hazardous substance (present at greater than or equal to 1.0%)

PA3=New Jersey environmental hazardous substance (present at greater than or equal to 1.0%)

The above information is accurate to the best of our knowledge. However, since safety standards, data, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Convenience Products makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.

MATERIAL SAFETY DATA SHEET						
<b>NFPA RATING:</b> Health = 3 Flamm	nability =	0 Reactivity =	= 0			
<b>HMIS RATING:</b> Health = /3 Flamm	nability =	0 Reactivity =	= 0			
	•	•				
SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1132A)						
Distributor: HILLYARD Product Name: PROFFESSIONAL PRIDE TOUCHDOWN						
Address:40 Ash CircleDate Prepared: April 28, 2008						
Warminster, PA 18974		Prepare		y Affairs Department		
Emergency Telephone No.: (800) 424-930	0 (Only in t	he event of cher	nical emergency	involving a spill, leak,	, fire,	
exposure or accident involving chemical	s.)	Other in	formation calls: (3	816) 233-1321 (Ext. 828	5)	
1 0	,		,	http://www.hillyard.com		
SECTION II – INGREDIENTS/IDENTIT	Y INFORM	ATION			_	
Components						
(Specific Chemical Identity:				<b>OTHER LIMITS</b>		
Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%	
2-Butyl cellosolve (2-Butoxyethanol) (1)*	111-76-2	50 ppm	20 ppm	N.A.	18-23%	
Ethanolamine (2)	141-43-5	3 ppm	3 ppm	N.A.	3-7%	
Potassium Hydroxide (3)*	1310-58-3	$2 \text{ mg/ m}^3$	$2 \text{ mg/m}^3$	$NIOSH = 2mg/m^3$	1-5%	
Sodium Metasilicate	6834-92-0	not est.	not est.	$2 \text{ mg/M}^3$	1-5%	
Water	7732-18-5	none	none	N.A.		
Sodium Xylene Sulfonate	1300-58-3	none	none	N.A.		
(1) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, RI.						
(2) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, PA, RI.						
(3) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, PA, RI						
*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part						
372: 2-Butoxyethanol and Potassium Hydroxide.						
VOC (Concentrate) = 26%; VOC (min. dilution) = 4.33%						

#### SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

**Boiling Point:** 204°F Specific Gravity ( $H_2O = 1$ ): 25°C = 1.05  $\& 39^{\circ}C = 1.06$ **Percent Volatile by Volume (%):** Vapor Pressure (mm Hg.): 16.3 84.2% Vapor Density (AIR = 1): slower than 1 1.5 **Evaporation Rate (ethyl ether = 1):** Solubility in Water : Complete Appearance and Odor: Clear, colorless to amber liquid; mild solvent odor pH (concentrate) = 13.8

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits:** LEL = Not established UEL = Not established **Flash point:** None (Tag Closed Cup) **Extinguishing Media:** Carbon dioxide, dry chemical or foam (water spray to cool closed containers) Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire and Explosion Hazards: None known to Hillyard.

# SECTION V - PHYSICAL HAZARDS

**Stability:** Stable Conditions to Avoid: Heat, sparks and open flame Incompatibility (Materials to Avoid): Keep away from strong oxidizers such as permanganate or strong oxides. Avoid contact with all acids, leather, wool, aluminum, copper, tin, lead, zinc and their alloys. Hazardous Decomposition Products or Byproducts: Potassium hydroxide reacts with zinc, aluminum, tin, and

other active metals liberating flammable hydrogen gas. Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

#### SECTION VI – HEALTH HAZARD DATA

**Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes

# HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Corrosive to all body tissue with which it comes in contact. Chronic local effects may consist of multiple areas of superficial destruction of the skin or dermatitis. Harmful or fatal if swallowed. 2. None known to Hillyard Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No **I.A.R.C. Monographs** = No OSHA = No

#### A TEDIAL CADETA DATEA OTTENT

#### page 2 of - #5789 Professional Pride Touchdown

## SECTION VI – HEALTH HAZARD DATA continued.

**Signs and Symptoms of Exposure:** Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness, hematuria, and damage to liver and kidneys.

Medical Conditions Generally Aggravated by Exposure: Repeated overexposure may result in damage to the blood.

**Emergency and First Aid Procedures:** Inhalation - Remove person to fresh air. If breathing difficulty persists or occurs later, call a physician. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. Get prompt medical attention. Remove and wash all contaminated clothing before reuse. If swallowed, immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb large spills with floor dry material (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.

Waste Disposal Method: Dispose of in accordance with state or local regulations. Do not dispose of in storm drains or streams; monoethanolamine is toxic to fish.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Do not store above 120°F. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness. USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Do not get on skin, in eyes, or on clothing.

## SECTION VIII – CONTROL MEASURES

**Respiratory Protection (Specify Type):** Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: at least 10 air changes per hour recommended

Local Exhaust = recommended Mechanical (General) = recommended Special = N/A Other = N/A Protective Gloves: impervious rubber gloves Eye Protection: chemical safety goggles Other Protective Clothing or Equipment: Protective clothing such as uniforms, coveralls. Wear impervious/slip-resistant boots

such as Hillyard Stripping Boots while standing in the stripping solution.

Work / Hygienic Practices: Wash contaminated clothing before reuse (including shoes).

## SECTION IX – TRANSPORTATION INFORMATION

DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(Quart boxes) = Consumer Commodity ORM-D

Package Marking = Consumer Commodity ORM-D Label = None Hazard Class = not applicable

# DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(2.5 and 55 Gallon packages) = Compound, cleaning, liquid, (Potassium Hydroxide, Monoethanolamine), 8, NA 1760, PG II

Package Marking = Compound, cleaning liquid (Potassium Hydroxide, Monoethanolamine), NA 1760

Package Label = Corrosive Hazard Class = 8 Package Group = II

EPA Hazardous waste number/code: not listed

Hazardous waste characteristics: Ignitability = not applicable; Corrosivity = applicable; Reactivity = not applicable

## DISCLAIMER OF WARRANTIES

## NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

Common Name:

CARPET SHAMPOO

Manufacturer:

W.W. GRAINGER

MSDS Revision Date:

1/18/2010

Grainger Item Number(s):

5FVZ3

Manufacturer Model Number(s):

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16. OTHER INFORMATION

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MATERIAL SAFETY DATA SHEET TOUGH GUY(TM) CARPET SHAMPOO VERSION NUMBER: Ø

PREPARATION DATE: 2010-01-18

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CARPET SHAMPOO

MSDS #: MS0600590

PRODUCT CODE: 5FVZ3

Tough Guy Carpet Shampoo 5FVZ3 RECOMMENDED USE: CARPET CARE. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE. MANUFACTURER, IMPORTER, SUPPLIER: MANUFACTURED FOR: W.W. GRAINGER, INC. 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201 PHONE: 1-847-535-1000 TECHNICAL SERVICE: 1-847-535-5400 EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION CAUSES EYE AND SKIN IRRITATION

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT: SKIN CONTACT: INHALATION:

EYE CONTACT: MODERATELY IRRITATING TO THE EYES

SKIN CONTACT: MODERATELY IRRITATING TO THE SKIN

INHALATION: NONE KNOWN

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)			CAS #	WEIGHT %
SODIUM LAURYL	SULFATE		151-21-3	5 - 10%
AMINE SALT OF	MODIFIED ACRYL	IC COPOLYMER	TS*	5 - 10%
INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RA	ABBIT LC50 IN	HALATION - RAT
SODIUM LAURYL SULFATE	1288	=580 MG/KG	>3900	MG/M3 (1 H)

4. FIRST AID MEASURES

EYE CONTACT: FLUSH IMMEDIATELY WITH PLENTY OF WATER IF IRRITATION PERSISTS, GET MEDICAL ATTENTION

SKIN CONTACT: FLUSH IMMEDIATELY WITH PLENTY OF WATER IF IRRITATION PERSISTS, GET MEDICAL ATTENTION

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

INGESTION: IF SWALLOWED, GIVE A CUPFUL OF WATER OR MILK

AGGRAVATED MEDICAL CONDITIONS: PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES

# SUITABLE EXTINGUISHING MEDIA: THE PRODUCT IS NOT FLAMMABLE EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: NO INFORMATION AVAILABLE

7. HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH SKIN, EYES AND CLOTHING Tough Guy Carpet Shampoo 5FVZ3 WASH THOROUGHLY AFTER HANDLING

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES TO REDUCE EXPOSURE: NO SPECIAL VENTILATION REQUIREMENTS GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HYGIENE MEASURES: HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT: NONE

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0 % BY WT.

EVAPORATION RATE: NO INFORMATION AVAILABLE

VOC: 0.2 % \*

pH: 8.2

DILUTION pH: 7.6 @ 1:16

APPEARANCE: AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.025

VAPOR DENSITY: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VISCOSITY: NO INFORMATION AVAILABLE

DENSITY: 8.59 LBS/GAL 1.03 KG/L

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

COLOR: CLEAR STRAW

ODOR: FRUITY

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT: >200 DEG. F >93.4 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

\* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

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Tough Guy Carpet Shampoo 5FVZ3

10. STABILITY AND REACTIVITY

STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG DERMAL LD50 ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS: CARCINOGENIC EFFECTS: NONE KNOWN MUTAGENIC EFFECTS: NONE KNOWN REPRODUCTIVE TOXICITY: NONE KNOWN TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION

Tough Guy Carpet Shampoo 5FVZ3

ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS: DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION

DOT/TDG: PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

**15. REGULATORY INFORMATION** 

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES: U.S.A. (TSCA)

U.S. REGULATIONS:

Tough Guy Carpet Shampoo 5FVZ3 CALIFORNIA PROPOSITION 65: THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65. SARA 311/312 HAZARD CATEGORIES: IMMEDIATE (X) DELAYED () FIRE () REACTIVITY ( ) SUDDEN RELEASE OF PRESSURE ( ) CANADA: WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA RIGHT TO KNOW (RTK): CAS # NJRTK MARTK INGREDIENT(S) PARTK RIRTK WATER 7732-18-5 SODIUM LAURYL SULFATE 151-21-3 AMINE SALT OF MODIFIED ACRYLIC TS\* COPOLYMER CERCLA/SARA:

16. OTHER INFORMATION

HEALTH 2 FIRE HAZARD 0 REACTIVITY 0 NFPA: HEALTH 2

HMIS:

FLAMMABILITY 0 INSTABILITY 0 Tough Guy Carpet Shampoo 5FVZ3 REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE:

CONTAINS AN ADDED FRAGRANCE, SEE "ODOR" HEADING IN SECTION 9 FOR SPECIFIC DESCRIPTION

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.



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MSDS

Common Name: COMMERCIAL CRAWLING INSECT KILLER (DR-G-098) Manufacturer: ECOSMART TECHNOLOGIES MSDS Revision Date: 11/1/2007

Grainger Item Number(s): 1NNX2, 9PMW0 Manufacturer Model Number(s):

#### **MSDS Table of Contents**

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MATERIAL SAFETY DATA SHEET

ECOSMART(R\*) COMMERCIAL

CRAWLING INSECT KILLER

THIS DOCUMENT HAS BEEN PREPARED TO MEET THE REQUIREMENTS OF THE U.S. OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, THE EU DIRECTIVE, 91/155/EEC AND OTHER REGULATORY REQUIREMENTS.

# **1. COMPANY & PRODUCT IDENTIFICATION**

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PRODUCT: ECOSMART COMMERCIAL CRAWLING INSECT KILLER (DR-G-098)

MANUFACTURER: ECOSMART TECHNOLOGIES, INC. 3600 MANSELL ROAD SUITE 150 ALPHARETTA, GA 30022 FOR GENERAL INFORMATION: (888) 326-SAFE (9AM TO 5PM EST) EMERGENCY TELEPHONE NUMBER:

INFOTRAC CHEMICAL RESPONSE SYSTEM: (800) 535-5053 (24 HOURS)

# 2. INGREDIENTS

ESSENTIAL OILS BLEND (ACTIVE INGREDIENT): % BY WEIGHT: 8% CAS: N.A. EXPOSURE LIMITS: NONE ESTABLISHED

CARBON DIOXIDE PROPELLANT (INERT INGREDIENT): % BY WEIGHT: 3.5% CAS: 124-38-9

EXPOSURE LIMITS: TWA: 5000 PPM

EMULSIFIER (INERT INGREDIENT): % BY WEIGHT: 0.2% CAS: 8002-43-5 EXPOSURE LIMITS: NONE ESTABLISHED

PROPRIETARY SOLVENT BLEND (INERT INGREDIENT): % BY WEIGHT: 40% CAS: N.A. EXPOSURE LIMITS: NONE ESTABLISHED

WATER (INERT INGREDIENT): % BY WEIGHT: TO 100% CAS: 7732-18-5 EXPOSURE LIMITS: NONE ESTABLISHED

#### **3. HAZARDS IDENTIFICATION**

POTENTIAL HEALTH EFFECTS: MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE EYE IRRITATION. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

FLAMMABLE: CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. DO NOT PUNCTURE OR INCINERATE CONTAINER. EXPOSURE TO TEMPERATURE ABOVE 130 DEG. F MAY CAUSE BURSTING.

# **4. FIRST AID MEASURES**

CAUTION: AVOID CONTACT WITH EYES.

IF IN EYES: FLUSH WITH PLENTY OF WATER.

IF ON SKIN: WASH WITH SOAP AND WATER.

IF INHALED: MOVE EXPOSED PERSON(S) TO FRESH AIR.

IF INGESTED: RINSE MOUTH OUT WITH WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IF NECESSARY.

# **5. FIRE FIGHTING MEASURES**

FLASHPOINT: NOT TESTED

FLAMMABLE LIMITS: NOT TESTED

EXTINGUISHING MEDIA: USE FOAM, CARBON DIOXIDE, OR DRY CHEMICAL EXTINGUISHERS. 🛆 top

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FIRE AND EXPLOSION HAZARDS: CONTAINER CONTENTS ARE UNDER PRESSURE. EXPOSURE TO TEMPERATURES ABOVE 130 DEG. F COULD CAUSE BURSTING.

SPECIAL FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL TO PREVENT BURSTING. FIREFIGHTERS SHOULD HAVE EYE PROTECTION AND WEAR SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, FUMES AND UNBURNED HYDROCARBONS AND TERPINES.

### 6. SPILL/LEAK PROCEDURES

SHOULD THE CONTAINER BEGIN TO LEAK (IF ACCIDENTALLY PUNCTURED FOR EXAMPLE) ALLOW THE CONTENTS TO DISCHARGE COMPLETELY IN A WELL-VENTILATED AREA. WHEN THE CONTENTS HAVE BEEN COMPLETELY DISCHARGED, ABSORB ANY LIQUID RESIDUE WITH AN INERT ABSORBENT MATERIAL AND DISPOSE OF THE EMPTY CONTAINER AND ABSORBENT MATERIAL IN ACCORDANCE WITH LOCAL ORDINANCES. COMPONENTS OF THIS PRODUCT ARE NOT CONSIDERED EPA HAZARDOUS WASTES.

# 7. HANDLING & STORAGE

STORE IN A COOL, DRY PLACE. DO NOT USE OR STORE NEAR HEAT, FLAMES OR HOT SURFACES. DO NOT SMOKE WHILE USING PRODUCT. DO NOT USE PRODUCT ON OR IN ELECTRICAL EQUIPMENT. FOODS AND EATING UTENSILS SHOULD BE REMOVED OR COVERED WHEN THIS PRODUCT IS USED. FOOD PROCESSING EQUIPMENT SHOULD BE COVERED

AND/OR WIPED DOWN AFTER USE. NO SMOKING OR EATING IN THE PRODUCT HANDLING AREA.

DISPOSAL: WHEN CONTAINER IS EMPTY, RECYCLE IF AVAILABLE. IF RECYCLING IS NOT AVAILABLE, WRAP AND PLACE THE EMPTY CONTAINER IN A TRASH COLLECTOR. KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: LOCAL EXHAUST VENTILATION IS NOT REQUIRED.

RESPIRATORY PROTECTION: NOT REQUIRED WITH ADEQUATE VENTILATION.

EYE PROTECTION: NOT REQUIRED. SAFETY GLASSES ARE RECOMMENDED DURING VOLUMETRIC TREATMENTS.

GLOVES: NOT REQUIRED.

OTHER PROTECTIVE EQUIPMENT: NOT REQUIRED.

# **9. PHYSICAL PROPERTIES**

APPEARANCE: WHITE LIQUID

SPECIFIC GRAVITY (WATER = 1): 0.98 G/ML

ODOR: SWEET FLORAL / MINTY SCENT

# **10. STABILITY AND REACTIVITY**

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Grainger MSDS Lookup

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CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

# **11. TOXICOLOGICAL INFORMATION**

RAT ACUTE ORAL: NOT DETERMINED

ACUTE EFFECTS FROM OVEREXPOSURE: THE INDIVIDUAL COMPONENTS OF THIS PRODUCT ARE KNOWN TO HAVE LOW ORAL AND DERMAL TOXICITY. THIS MIXTURE IS EXPECTED TO HAVE A SIMILAR TOXICOLOGICAL PROFILE. PROLONGED CONTACT WITH THE SKIN MAY CAUSE IRRITATION, AND CONTACT WITH THE EYES MAY CAUSE EYE IRRITATION. INHALATION OF THE VAPOR MAY CAUSE IRRITATION OF NASAL PASSAGES AND/OR DIZZINESS. INGESTION OF THIS PRODUCT COULD RESULT IN IRRITATION OF THE GASTROINTESTINAL TRACT, HEADACHE OR NAUSEA.

CHRONIC EFFECTS FROM OVEREXPOSURE: NO DATA IS AVAILABLE.

CARCINOGENICITY: NTP: NO OSHA: NO

# **12. ENVIRONMENTAL INFORMATION**

WHILE SPECIFIC DATA REGARDING TOXICITY TO FISH OR OTHER AQUATIC ORGANISMS IS NOT AVAILABLE FOR THIS PRODUCT, CARE SHOULD ALWAYS BE TAKEN TO PREVENT PESTICIDES FROM ENTERING AQUIFERS.

# **13. DISPOSAL**

THE	AEROS	SOL	CON	<b>FAINER</b>	IS	NOT	REFI	LLABLE.	WHE	N CO	NTAIN	JER	IS	EMPI	Y, 1	RECYCI	LE
ΙF	AVAILA	ABLE	. II	F RECY	CLIN	NG IS	S NOT	POSSIB	LE,	WRAP	THE	CON	TAI	NER	AND	DISPO	OSE
OF	WITH (	ORDI	NAR	Y TRAS	н.												

# **14. TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME: CONSUMER COMMODITY

DOT HAZARD CLASS: ORM-D

# **15. REGULATORY INFORMATION**

NFPA RATINGS: HEALTH 1 FIRE 1 REACTIVITY 0 SPECIAL NONE SARA TITLE III: THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS SUBJECT TO SECTION 313 (40 CFR 372) REPORTING REQUIREMENTS. ECOSMART TECHNOLOGIES 🛆 top

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PHONE: (888) 326-7233

REVISED: NOVEMBER 2007

MSDS



### X Close this window

Common Name: TOUGH GUY CRAWLING INSECT KILLER Manufacturer: W.W. GRAINGER MSDS Revision Date: 8/30/2007

Grainger Item Number(s): 2DCB3 Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

HMIS(R\*): HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 PERSONAL PROTECTION A

IDENTITY: TOUGH GUY CRAWLING INSECT KILLER

PART NUMBER: 2DCB3

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

# SECTION 1: COMPANY IDENTIFICATION

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE): 100 GRAINGER PARKWAY LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

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TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

# SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ISOPARAFFIN	64742-47-8	5 MG/M3	5 MG/M3		7 - 13%
ISOBUTANE	75-28-5	800 PPM	800 PPM		7 - 13%
PROPANE	74-98-6	1000 PPM	2500 PPM		1 - 5%
PIPERONYL BUTOXIDE	51-03-6	NONE	NONE		<1%
PERMETHRIN	52645-53-1	NONE	NONE		<1%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

### **SECTION 3: HAZARDS IDENTIFICATION**

ROUTE(S) OF ENTRY: EYES?: YES INHALATION?: YES SKIN?: NO INGESTION?: YES

ACUTE HEALTH HAZARDS: CAUTION. HARMFUL IF INHALED. MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE SKIN IRRITATION. EXCESSIVE EXPOSURE TO VAPORS IN INADEQUATELY VENTILATED AREAS MAY INDUCE ANESTHETIC PROPERTIES. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN USING THIS AND OTHER INSECTICIDAL PRODUCTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY: CHEMICAL: NONE OSHA: NO NTP: NO IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE: IRRITATION OF NOSE, THROAT OR RESPIRATORY TRACT. REDNESS OR IRRITATION OF SKIN OR EYES. OVEREXPOSURE TO VAPORS MAY CAUSE DROWSINESS, DIZZINESS, NAUSEA, LOSS OF COORDINATION OR CONSCIOUSNESS (EXTREME CONDITIONS) OR FATIGUE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SLIGHT SKIN IRRITATION TO THOSE WITH SENSITIVE SKIN. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

### **SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

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EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO

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IMMEDIATE MEDICAL ATTENTION.

PERSISTS, CALL A PHYSICIAN.

FLAMMABLE LIMITS: NO DATA

NOTE: CONTAINS PETROLEUM DISTILLATES.

**SECTION 5: FIRE FIGHTING MEASURES** 

INGESTION:

INHALATION:

SKIN:

LEL: NO DATA UEL: NO DATA

EXTINGUISHING MEDIA: TREAT AS AN OIL FIRE. FLOATING FIRE MAY SPREAD. USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

USA FLAME PROJECTION TEST (ASTM D-3065): 0", NO FLASHBACK, NON-FLAMMABLE

INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

PREFERABLY MOUTH TO MOUTH. GET MEDICAL ATTENTION.

(UNLIKELY, AEROSOL) IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS INSTRUCTED BY A PHYSICIAN. GET

REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION,

WASH WITH SOAP AND WATER, RINSE THOROUGHLY. IF IRRITATION ARISES AND

SPECIAL FIRE FIGHTING PROCEDURES: USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. THIS PRODUCT IS TOXIC TO FISH. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 130 DEG. F. CONTAINS COMBUSTIBLE LIQUIDS.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL. THIS PRODUCT IS TOXIC TO FISH.

# **SECTION 7: HANDLING AND STORAGE**

HANDLING:

DO NOT BREATHE VAPOR OR SPRAY MIST. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DIRECT SPRAY AWAY FROM FACE. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, ELECTRIC MOTORS, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT USE THIS PRODUCT IN OR ON ELECTRICAL

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EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD. DO NOT USE AROUND THE ELDERLY, INFIRM OR PATIENTS. AVOID CONTAMINATION OF FEED AND FOODSTUFFS. VACATE ROOM AFTER TREATMENT AND VENTILATE BEFORE REOCCUPYING.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 130 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. PROTECT FROM FREEZING. STORE AT TEMPERATURES ABOVE 32 DEG. F AND BELOW 130 DEG. F. REPLACE CAP WHEN NOT IN USE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION: YES, SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION: NOT USUALLY NEEDED. IF DIRECT CONTACT POSSIBLE, IMPERVIOUS

RESPIRATORY PROTECTIONS: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS: VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: A THICK WHITE OPAQUE LIQUID THAT HAS A CHARACTERISTIC INSECTICIDE ODOR IN AN AEROSOL CAN.

pH: 7.0 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 0.968

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 65 +/- 5

VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)

SOLUBILITY IN WATER: DISPERSIBLE

VOLATILE ORGANIC COMPOUNDS (VOCS): 129.79 GRAMS PER LITER OR 14.98% BY WEIGHT VOCS

# SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

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STRONG OXIDIZING AND STRONG REDUCING AGENTS, STRONG MINERAL ACIDS, OXYGEN, CHLORINE, PERMANGANATES, AND DICHROMATES.

### SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

### SECTION 12: ECOLOGICAL INFORMATION

NO DATA

# SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION: IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT INFORMATION - 49 CFR 172.101: PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY HAZARD CLASS: ORM-D IDENTIFICATION NUMBER: NONE PACKING GROUP: NONE

WATER TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS HAZARD CLASS: 2 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

AIR TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS, NON-FLAMMABLE HAZARD CLASS: 2.2 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

### **SECTION 15: REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

EPA PRODUCT REGISTRATION NUMBER: 11694-110-10637

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS: ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

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SARA 313 COMPONENTS - 40 CFR 372.65: PIPERONYL BUTOXIDE (CAS: 51-03-6) - 0.59% PERMETHRIN (CAS: 52645-53-1) - 0.24%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

# SECTION 16: ADDITIONAL INFORMATION

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DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

MSDS



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Common Name: DR-G-012 COMMERCIAL FLYING INSECT KILLER Manufacturer: ECOSMART TECHNOLOGIES MSDS Revision Date: 2/19/2007

Grainger Item Number(s): 1NNX3, 9AGE5 Manufacturer Model Number(s):

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DRG012 ECOSMART COMMERCIAL FLYING INSECT KILLER

MATERIAL SAFETY DATA SHEET

THIS DOCUMENT HAS BEEN PREPARED TO MEET THE REQUIREMENTS OF THE U.S. OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, THE EU DIRECTIVE, 91/155/EEC AND OTHER REGULATORY REQUIREMENTS.

# **1. COMPANY AND PRODUCT IDENTIFICATION**

PRODUCT: DR-G-012 ECOSMART COMMERCIAL FLYING INSECT KILLER

MANUFACTURER: ECOSMART TECHNOLOGIES, INC. 318 SEABOARD LANE SUITE 208 FRANKLIN, TN 37067

EMERGENCY TELEPHONE NUMBER: INFO TRAC CHEMICAL RESPONSE SYSTEM: (800) 535-5053 (24 HOURS)

FOR GENERAL INFORMATION: (888) 326-SAFE (9AM TO 5PM EST)

# 2. INGREDIENTS

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INGREDIENT NAME	% BY WEIGHT	CAS #	EXPOSURE LIMITS
ACTIVE INGREDIENTS:			
BLEND OF ESSENTIAL OILS	3.6%		NONE ESTABLISHED
INERT INGREDIENTS:			
CARBON DIOXIDE (PROPELLANT)	3.0%	124-38-9	TWA: 5000 PPM
EMULSIFIER	0.2%	8002-43-5	NONE ESTABLISHED
PROPRIETARY SOLVENT BLEND	13.0%	NOT APPLICABLE	NONE ESTABLISHED
WATER	TO 100%	7732-18-5	NONE ESTABLISHED

# **3. HAZARDS IDENTIFICATION**

POTENTIAL HEALTH EFFECTS: MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE EYE IRRITATION. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

FLAMMABLE: CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

DO NOT PUNCTURE OR INCINERATE CONTAINER. EXPOSURE TO TEMPERATURE ABOVE 130 DEG. F MAY CAUSE BURSTING.

# **4. FIRST AID MEASURES**

CAUTION: AVOID CONTACT WITH EYES.

IF IN EYES: FLUSH WITH PLENTY OF WATER.

IF ON SKIN: WASH WITH SOAP AND WATER.

IF INHALED: MOVE EXPOSED PERSON(S) TO FRESH AIR.

IF INGESTED: RINSE MOUTH OUT WITH WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IF NECESSARY.

# **5. FIRE FIGHTING MEASURES**

FLASH POINT: GREATER THAN 212 DEG. F (100 DEG. C)

FLAMMABLE LIMITS: NOT TESTED

EXTINGUISHING MEDIA: USE FOAM, CARBON DIOXIDE, OR DRY CHEMICAL EXTINGUISHERS.

FIRE AND EXPLOSION HAZARDS: CONTAINER CONTENTS ARE UNDER PRESSURE. EXPOSURE TO TEMPERATURES ABOVE 130 DEG. F COULD CAUSE BURSTING.

SPECIAL FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL TO PREVENT BURSTING. FIREFIGHTERS SHOULD HAVE EYE PROTECTION AND WEAR SELF-CONTAINED BREATHING APPARATUS. A top

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HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, FUMES, AND UNBURNED HYDROCARBONS AND TERPENES.

# 6. SPILL/LEAK PROCEDURES

SHOULD THE CONTAINER BEGIN TO LEAK (IF ACCIDENTALLY PUNCTURED FOR EXAMPLE) ALLOW THE CONTENTS TO DISCHARGE COMPLETELY IN A WELL-VENTILATED AREA. WHEN THE CONTENTS HAVE BEEN COMPLETELY DISCHARGED, ABSORB ANY LIQUID RESIDUE WITH AN INERT ABSORBENT MATERIAL AND DISPOSE OF THE EMPTY CONTAINER AND ABSORBENT MATERIAL IN ACCORDANCE WITH LOCAL ORDINANCES. COMPONENTS OF THIS PRODUCT ARE NOT CONSIDERED EPA HAZARDOUS WASTES.

### 7. HANDLING AND STORAGE

STORE IN A COOL, DRY PLACE. DO NOT USE OR STORE NEAR HEAT, FLAMES OR HOT SURFACES. DO NOT SMOKE WHILE USING PRODUCT. DO NOT USE PRODUCT ON OR IN ELECTRICAL EQUIPMENT. FOODS AND EATING UTENSILS SHOULD BE REMOVED OR COVERED WHEN THIS PRODUCT IS USED. FOOD PROCESSING EQUIPMENT SHOULD BE COVERED AND/OR WIPED DOWN AFTER USE. NO SMOKING OR EATING IN THE PRODUCT HANDLING AREA.

DISPOSAL: WHEN CONTAINER IS EMPTY, RECYCLE IF AVAILABLE. IF RECYCLING IS NOT AVAILABLE, WRAP AND PLACE THE EMPTY CONTAINER IN A TRASH COLLECTOR. KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: LOCAL EXHAUST VENTILATION IS NOT REQUIRED.

RESPIRATORY PROTECTION: NOT REQUIRED WITH ADEQUATE VENTILATION.

EYE PROTECTION: NOT REQUIRED. SAFETY GLASSES ARE RECOMMENDED DURING VOLUMETRIC TREATMENTS.

GLOVES: NOT REQUIRED.

OTHER PROTECTIVE EQUIPMENT: NOT REQUIRED.

#### 9. PHYSICAL PROPERTIES

APPEARANCE: WHITE LIQUID

SPECIFIC GRAVITY (WATER = 1): 1.0 G/ML

ODOR: SWEET FLORAL / MINTY SCENT

# **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

# **11. TOXICOLOGICAL INFORMATION**

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RAT ACUTE ORAL: LD50: >5,000 MG/KG

ACUTE EFFECTS FROM OVEREXPOSURE: THE INDIVIDUAL COMPONENTS OF THIS PRODUCT ARE KNOWN TO HAVE LOW ORAL AND DERMAL TOXICITY. THIS MIXTURE IS EXPECTED TO HAVE A SIMILAR TOXICOLOGICAL PROFILE. PROLONGED CONTACT WITH THE SKIN MAY CAUSE IRRITATION, AND CONTACT WITH THE EYES MAY CAUSE EYE IRRITATION. INHALATION OF THE VAPOR MAY CAUSE IRRITATION OF NASAL PASSAGES AND/OR DIZZINESS. INGESTION OF THIS PRODUCT COULD RESULT IN IRRITATION OF THE GASTROINTESTINAL TRACT, HEADACHE OR NAUSEA. CHRONIC EFFECTS FROM OVEREXPOSURE: NO DATA ARE AVAILABLE. CARCINOGENICITY: NTP: NO OSHA: NO **12. ENVIRONMENTAL INFORMATION** 🛆 top WHILE SPECIFIC DATA REGARDING TOXICITY TO FISH OR OTHER AQUATIC ORGANISMS IS NOT AVAILABLE FOR THIS PRODUCT, CARE SHOULD ALWAYS BE TAKEN TO PREVENT INSECTICIDES FROM ENTERING AQUIFERS. 13. DISPOSAL A top THE AEROSOL CONTAINER IS NOT REFILLABLE. WHEN CONTAINER IS EMPTY, RECYCLE IF AVAILABLE. IF RECYCLING IS NOT POSSIBLE, WRAP THE CONTAINER AND DISPOSE OF WITH ORDINARY TRASH. **14. TRANSPORTATION INFORMATION** A top PROPER SHIPPING NAME: CONSUMER COMMODITY DOT HAZARD CLASS: ORM-D **15. REGULATORY INFORMATION** A top NFPA RATINGS: HEALTH 1

HEALTH 1 FIRE 1 REACTIVITY 0 SPECIAL NONE

TSCA: NO INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

SARA TITLE III: THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS SUBJECT TO SECTION 313 (40 CFR 372) REPORTING REQUIREMENTS.

FEBRUARY 19, 2007

DRG012 ECOSMART COMMERCIAL FLYING INSECT KILLER MSDS.DOC



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MSDS

Common Name: TOUGH GUY CARPET & TEXTILE SPOT CLEANER Manufacturer: W.W. GRAINGER MSDS Revision Date: 8/30/2007

Grainger Item Number(s): 2DCB7 Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

HMIS(R\*): HEALTH 1 FLAMMABILITY 3 REACTIVITY 0 PERSONAL PROTECTION B

IDENTITY: TOUGH GUY CARPET & TEXTILE SPOT CLEANER

PART NUMBER: 2DCB7

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

# SECTION 1: COMPANY IDENTIFICATION

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE): 100 GRAINGER PARKWAY LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

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TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

## SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
ISOBUTANE	75-28-5	800 PPM	800 PPM		5 - 10%
VM & P NAPHTHA (MIST)	64742-89-8	5 MG/M3	5 MG /M3		3 - 7%
METHANOL (SKIN DESIGNATION)	67-56-1	200 PPM	200 PPM	250 PPM (STEL)	1 - 5%
PROPANE	74-98-6	1000 PPM	ASPHYXIANT		1 - 5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

### SECTION 3: HAZARDS IDENTIFICATION

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ROUTE(S) OF ENTRY: EYES?: YES INHALATION?: YES SKIN?: YES INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING.

ASPIRATION HAZARD. HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTENTS UNDER PRESSURE. TOXIC BY INGESTION.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY: CHEMICAL: NONE OSHA: NO NTP: NO IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE: REDNESS, TEARING, BURNING IN EYES. DEFATTING OR DRYING OF SKIN, CRACKING. NARCOTIC EFFECTS POSSIBLE WITH INADEQUATE VENTILATION. IRRITATION OF NOSE AND THROAT. ASPIRATION HAZARD. CONTAINS METHANOL (LESS THAN 2.5%).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN AND LUNG DISORDERS. FOLLOW GOOD CHEMICAL HYGIENE PROCEDURES TO AVOID THIS HAZARD.

### SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

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EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OCCURS OR PERSISTS, SEE PHYSICIAN.

#### SECTION 5: FIRE FIGHTING MEASURES

USA FLAME PROJECTION TEST: 6" - 8", NO FLASHBACK (FLAMMABLE)

FLAMMABLE LIMITS: NO DATA LEL: NO DATA UEL: NO DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM OR WATER FOG ACCEPTABLE.

SPECIAL FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: CARBON DIOXIDE AND CARBON MONOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. FOAM MAY RETAIN PROPELLANT.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL: WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

### **SECTION 7: HANDLING AND STORAGE**

HANDLING:

DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. DO NOT SWALLOW. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. WASH THOROUGHLY AFTER HANDLING. CONTAINS PETROLEUM DISTILLATES. ASPIRATION HAZARD. DIRECT SPRAY AWAY FROM FACE. USE WITH ADEQUATE VENTILATION. AVOID INHALING MIST OR VAPORS.

STORAGE: FOLLOW LABEL DIRECTIONS CAREFULLY. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, DIRECT SUNLIGHT, ETC. KEEP OUT

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OF REACH OF CHILDREN. DO NOT PUNCTURE OR INCINERATE CONTAINER. DO NOT CONTAMINATE FOOD, WATER OR FEED BY USE OR STORAGE. REPLACE CAP WHEN NOT IN USE.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: YES, SAFETY GLASSES W/SIDE SHIELDS, OR GOGGLES (ANSI 287).

SKIN PROTECTION: YES (IMPERMEABLE, I.E. RUBBER, NEOPRENE, ETC.)

RESPIRATORY PROTECTIONS: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS: VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: THIN WHITE OPAQUE LIQUID WITH A PLEASANT SCENT IN AN AEROSOL CAN.

pH 9.5 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 0.988

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): >1

PRESSURE (PSIG. @ 70 DEG. F): 60 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS): 176.5 GRAMS PER LITER OR 19% BY WEIGHT VOCS

#### SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS AND OXIDIZERS, SELECTED AMINES.

### SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

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NO DATA

# SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION: IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

### SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101: PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY HAZARD CLASS: ORM-D IDENTIFICATION NUMBER: NONE PACKING GROUP: NONE

WATER TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS HAZARD CLASS: 2 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

AIR TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE HAZARD CLASS: 2.1 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

# SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS: ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): METHANOL: 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65:

METHANOL (CAS: 67-56-1) 2.25%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS TRACE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

http://complyplus.grainger.com/grainger/msds.asp?sheetid=3003201

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# SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

#### WARNING!

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SDS



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Common Name:TOUGH GUY GENERAL PURPOSE DISINFECTANT WIPEManufacturer:W.W. GRAINGERSDS Revision Date:8/1/2013SDS Format:No Format Specified

Grainger Item Number(s): 4AZR9, 4AZT1 Manufacturer Model Number(s):

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TOUGH GUY(R\*)

SAFETY

MATERIAL SAFETY DATA SHEET

DISTRIBUTED BY: W.W. GRAINGER 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201

TELEPHONE: 847-535-1000

EMERGENCY: 800-983-4582

TECHNICAL SERVICE: 847-535-5400

MSDS DATE: 08-01-2013

REPLACES: 08-01-2011

MSDS NO.: GWP220110

SKU: 4AZT1 4AZR9

# **IDENTIFICATION (I)**

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PRODUCT NAME: TOUGH GUY GENERAL PURPOSE DISINFECTANT WIPE

CHEMICAL FORMULATION: PREMOISTEN TOWELETTE

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH 2 FLAMMABILITY 1 REACTIVITY 0

HAZARD RATING:

- 4 EXTREME
- 3 HIGH
- 2 MODERATE
- 1 SLIGHT 0 - INSIGNIFICANT

#### **HAZARDOUS INGREDIENTS (II)**

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APPROX % OSHA PEL ACGIH TLV EPA 40 CFT SUBSTANCE CAS# 302 355 372 CONTAINS NO HAZARDOUS COMPONENTS AS DEFINED IN 29 CFR 1910.1200 (D) KEY: PEL: PERMISSIBLE EXPOSURE LIMIT TLV: THRESHOLD LIMIT VALUE C: CEILING LEVEL STEL: SHORT TERM EXPOSURE LIMIT N/A: NOT APPLICABLE N/D: NOT DETERMINED N/E: NOT ESTABLISHED Y: YES N: NO 302: CERCLA LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4). 355: SARA TITLE III / LIST OF EXTREMELY HAZARDOUS SUBSTANCES FOR EMERGENCY PLANNING AND NOTIFICATION (40 CFR 355). 372: SARA TITLE III / LIST OF TOXIC CHEMICALS SUBJECT TO RELEASE REPORTING (COMMUNITY RIGHT TO KNOW) (40 CFR 372).

# **PHYSICAL DATA (III)**

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BOILING POINT (DEG. F): N/D SPECIFIC GRAVITY (WATER = 1): 1.00\* VAPOR PRESSURE (MMHG): N/D VOC CONTENT (% BY WEIGHT): <1.0\* VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): N/D SOLUBILITY IN WATER: UNKNOWN PH: N/D APPEARANCE AND ODOR: WHITE TOWEL IMPREGNATED WITH A CLEAR LIQUID; LEMON FRAGRANCE.

### FIRE AND EXPLOSION HAZARD DATA (IV)

FLASH POINT (DEG. F): N/D (TEST METHOD): CLOSED CUP

FLAMMABLE LIMITS IN AIR (VOLUME %): UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: WATER FOG, FOAM, CARBON DIOXIDE, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: COOL FIRE EXPOSED CONTAINERS WITH WATER FOG. FIREFIGHTERS SHOULD BE EQUIPPED WITH FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

### **REACTIVITY DATA (V)**

STABILITY: STABLE

INCOMPATIBILITY: STRONG OXIDIZERS.

CONDITIONS TO AVOID: EXCESS HEAT AND OPEN FLAME.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF NITROGEN, AMMONIA, CARBON AND OTHER LOW MOLECULAR WEIGHT HYDROCARBONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NONE

### **HEALTH HAZARD DATA (VI)**

ROUTES OF ENTRY: TNHALATION (X) EYE CONTACT (X) SKIN CONTACT (X) INGESTION () INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: NONE EFFECTS OF OVEREXPOSURE: IF IN EYES: MILD IRRITATION. IF ON SKIN: MILD IRRITATION AND REDNESS, WITH PROLONGED OR REPEATED EXPOSURE. IF SWALLOWED: MAY BE HARMFUL OR FATAL IF SWALLOWED. IF INHALED: EXPOSURE NOT LIKELY. EMERGENCY AND FIRST AID PROCEDURES: IF IN EYES: FLUSH EYES AND UNDER EYELIDS WITH PLENTY OF COOL WATER FOR AT LEAST 15

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MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

IF ON SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH SKIN WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

IF SWALLOWED: CONTACT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY DO NOT INDUCE VOMITING.

IF INHALED: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

### SPILL OR LEAK PROTECTION (VII)

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA AND REMOVE ALL SOURCES OF IGNITION. SCOOP UP MATERIAL AND PLACE IN A PROPERLY MARKED CLOSED CONTAINER FOR PROPER DISPOSAL.

WASTE DISPOSAL METHOD: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES.

### SPECIAL PROTECTION INFORMATION (VIII)

RESPIRATORY PROTECTION: USE WITH ADEQUATE VENTILATION.

VENTILATION: LOCAL: RECOMMENDED MECHANICAL: NOT REQUIRED

PROTECTIVE GLOVES: CHEMICAL RESISTANT.

EYE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: NONE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL, DRY PLACE AWAY FROM HEAT OR OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN..

#### TRANSPORTATION INFORMATION (GROUND TRANSPORTATION ONLY) (IX)

DOT ID NUMBER: NONE DOT PROPER SHIPPING NAME: NONE DOT CLASS: NONE DOT PACKING GROUP: NONE

THE SHIPPING INFORMATION LISTED ABOVE APPLIES ONLY TO NON-BULK (<119 GALLONS) CONTAINERS OF THIS PRODUCT. THIS PRODUCT MAY HAVE MORE THAN ONE PROPER SHIPPING NAME DEPENDING ON PACKAGING, PRODUCT PROPERTIES, & MODE OF SHIPMENT. IF ANY ALTERATION OF PACKAGING, PRODUCT, OR MODE OF TRANSPORTATION IS FURTHER INTENDED, DIFFERENT SHIPPING NAMES AND LABELING MAY APPLY.

THIS INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. TOUGH CUY(TM) ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO THE VENDEE, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL SUCH VENDEES OR USERS 🛆 top

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MSDS



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Common Name: TOUGH GUY GRAFFITI & SPRAY PAINT REMOVER Manufacturer: W.W. GRAINGER MSDS Revision Date: 8/30/2007

Grainger Item Number(s): 2DBX9 Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

HMIS(R\*): HEALTH 2 FLAMMABILITY 4 REACTIVITY 0 PERSONAL PROTECTION B

IDENTITY: TOUGH GUY GRAFFITI & SPRAY PAINT REMOVER

PART NUMBER: 2DBX9

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

# SECTION 1: COMPANY IDENTIFICATION

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE): 100 GRAINGER PARKWAY LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

# SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM		15 - 40%
TOLUENE	108-88-3	200 PPM	50 PPM	STEL: 150 PPM	10 - 30%
METHOXY ISOPROPANOL	107-98-2	NONE	100 PPM	STEL: 150 PPM	7 - 13%
ISOBUTANE	75-28-5	800 PPM	800 PPM		7 - 13%
DIMETHYL ADIPATE	627-93-0	NONE	NONE		7 - 13%
DIMETHYL GLUTARATE	1119-40-0	NONE	NONE		7 - 13%
PPG-2 METHYL ETHER (SKIN DESIGNATION)	34590-94-8	100 PPM	100 PPM	STEL: 150 PPM	3 - 7%
D-LIMONENE (R-p-MENTHA-1, 8-DIENE)	5989-27-5	NONE	NONE	30 PPM (MANU.)	3 - 7%
PROPANE	74-98-6	1000 PPM	ASPHYXIANT		3 - 7%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

# **SECTION 3: HAZARDS IDENTIFICATION**

ROUTE(S) OF ENTRY: EYES?: YES INHALATION?: YES SKIN?: YES INGESTION?: YES

ACUTE HEALTH HAZARDS: DANGER. EXTREMELY FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. CAUSES EYE IRRITATION. MAY BE HARMFUL IF INHALED. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTENTS UNDER PRESSURE.

CHRONIC HEALTH HAZARDS: REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE CAN CAUSE DERMATITIS AND PAINTER'S SYNDROME.

CARCINOGENICITY: CHEMICAL: NONE OSHA: NO NTP: NO IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

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REDNESS, TEARING, STINGING OR BURNING IN EYES. REDNESS, DRYNESS OR IRRITATION OF SKIN. DROWSINESS, DIZZINESS, LOSS OF COORDINATION, NAUSEA, VOMITING OR FATIGUE. IRRITATION OF NOSE, THROAT OR DIGESTIVE TRACT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN, HEART, LIVER AND KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED IF EXPOSURES OCCUR. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THIS HAZARD.

# **SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION: DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION: GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN. LAUNDER CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

#### **SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065): >18", FLASHBACK: EXTREMELY FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA UEL: NO DATA

EXTINGUISHING MEDIA: USE CARBON DIOXIDE, DRY CHEMICAL, OR FOAM. TREAT AS AN OIL FIRE. BURNING LIQUID MAY FLOAT ON WATER.

SPECIAL FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: OXIDES OF CARBON AND VARIOUS HYDROCARBONS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. FLAMMABLE CONTENTS.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL: WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

### SECTION 7: HANDLING AND STORAGE

#### HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, WELDING ARCS, ETC. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. DIRECT SPRAY AWAY FROM FACE.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION: YES, USE GOGGLES OR APPROVED SAFETY GLASSES (ANSI 287).

SKIN PROTECTION: YES, IMPERVIOUS.

RESPIRATORY PROTECTIONS: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS: VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: CLEAR COLORLESS LIQUID/GEL WITH AN AROMATIC SOLVENT AND CITRUS ODOR IN AN AEROSOL CAN. pH: N/A SPECIFIC GRAVITY (70 DEG. F): 0.888 BOILING POINT: 205 DEG. F MELTING POINT: NO DATA EVAPORATION RATE (BUTYL ACETATE = 1) NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 50 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: INSOLUBLE

VOLATILE ORGANIC COMPOUNDS (VOCS): 405.76 GRAMS PER LITER OR 49.98% BY WEIGHT VOC'S

# SECTION 10: STABILITY AND REACTIVITY

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HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON AND VARIOUS HYDROCARBONS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AND REDUCING AGENTS.

# SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

# SECTION 12: ECOLOGICAL INFORMATION

NO DATA

# SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION: IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

# SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101: PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY HAZARD CLASS: ORM-D IDENTIFICATION NUMBER: NONE PACKING GROUP: NONE

WATER TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS HAZARD CLASS: 2 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

AIR TRANSPORTATION: PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE HAZARD CLASS: 2.1 IDENTIFICATION NUMBER: UN 1950 PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

# SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

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TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS: ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

5000 LBS

CERCLA RQ - 40 CFR 302.4 (A):

TOLUENE (CAS: 108-88-3) 1000 LBS

ACETONE (CAS: 67-64-1)

SARA 313 COMPONENTS - 40 CFR 372.65:

TOLUENE (CAS: 108-88-3) 17%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL (TOLUENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

#### SECTION 16: ADDITIONAL INFORMATION

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DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION , QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

MSDS



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Common Name: TOUGH GUY HEAVY DUTY PRE-SPRAY - GALLON Manufacturer: W.W. GRAINGER MSDS Revision Date: 1/18/2010

Grainger Item Number(s): 5RVT5 Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

MSDS: 152\_022310

### SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TOUGH GUY HEAVY DUTY PRE-SPRAY - GALLON

PRODUCT CODE NUMBER: 152

PRODUCT USE: CLEANER

WHMIS CLASS: CLASS D - DIVISION 2B

DOT CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS.

TDG CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS.

MANUFACTURER/SUPPLIER: W.W. GRAINGER, INC. 100 GRAINGER PARKWAY LAKE FOREST, IL 60045 GENERAL ASSISTANCE: 800-323-0620 EMERGENCY TELEPHONE: (800) 535-5053

HMIS/NFPA: HEALTH 1 FLAMMABILITY 0 PHYSICAL HAZARD 0 PERSONAL PROTECTION B A top

### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT(S) CAS# WT % OSHA PELS 5324-84-5 1-5 1-OCTANESULFONIC NOT ESTABLISHED ACID, SODIUM SALT ALCOHOLS, C12-15, 68131-39-5 1-5 NOT ESTABLISHED ETHOXYLATED 533-96-0 1-5 NOT ESTABLISHED CARBONIC ACID, SODIUM SALT (2:3) SODIUM CITRATE 1-5 NOT ESTABLISHED 24851-98-7 INGREDIENT(S) ACGIH-TLV LC50 ORAL LD50 NOT ESTABLISHED NOT AVAILABLE 5000 MG/KG RAT 1-OCTANESULFONIC ACID, SODIUM SALT ALCOHOLS, C12-15, NOT ESTABLISHED 5 MG/L RAT 2000 MG/KG RAT ETHOXYLATED CARBONIC ACID, NOT ESTABLISHED NOT AVAILABLE 5600 MG/KG RAT SODIUM SALT (2:3) SODIUM CITRATE NOT ESTABLISHED NOT AVAILABLE NOT AVAILABLE

### SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 100 DEG. C FREEZING POINT: 0 DEG. C VAPOR PRESSURE: SAME AS WATER VAPOR DENSITY: SAME AS WATER SOLUBILITY IN WATER: COMPLETE PHYSICAL STATE: LIQUID APPEARANCE: COLORLESS LIQUID ODOR: CHARACTERISTIC pH (USE SOLUTION): 8.0 - 9.8 SPECIFIC GRAVITY: 1.05 - 1.07 @ 25 DEG. C (77 DEG. F) (H2O = 1) COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE % VOLATILE: 85-90% EVAPORATION RATE: 1 (H2O = 1) A top

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ph: 9.3 - 9.8 VISCOSITY: SAME AS WATER ODOR THRESHOLD: LOW ODOR ADDED FRAGRANCE: NONE

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY: NOT FLAMMABLE BY WHMIS/OSHA CRITERIA

FLASH POINT: >100.00 DEG. C (>212 DEG. F)

LEL: NOT AVAILABLE UEL: NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS: MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF SODIUM. OXIDES OF CARBON

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

MEANS OF EXTINCTION: DRY CHEMICAL. WATER SPRAY. ALCOHOL FOAM. CARBON DIOXIDE.

SPECIAL FIRE HAZARDS: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS.

#### **SECTION V - REACTIVITY DATA**

CONDITIONS FOR CHEMICAL INSTABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ACIDS.

REACTIVITY, AND UNDER WHAT CONDITIONS: DO NOT MIX WITH OTHER CHEMICALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF SODIUM. OXIDES OF CARBON WHEN HEATED TO DECOMPOSITION.

### SECTION VI - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: EYE, SKIN CONTACT, INHALATION, INGESTION.

EFFECTS OF ACTIVE EXPOSURE: EYE: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION: MAY CAUSE STOMACH DISTRESS, NAUSEA OR VOMITING.

EFFECTS OF CHRONIC EXPOSURE:

SKIN: PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.

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IRRITANCY: HAZARDOUS BY WHMIS/OSHA CRITERIA. RESPIRATORY TRACT: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. SENSITIZATION: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. CARCINOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. TERATOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. MUTAGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. REPRODUCTIVE EFFECTS: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA. SYNERGISTIC MATERIALS: NOT AVAILABLE

### **SECTION VII - PREVENTATIVE MEASURES**

GLOVES: RUBBER GLOVES. CONFIRM WITH A REPUTABLE SUPPLIER FIRST.

EYE PROTECTION: SAFETY GLASSES

RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED IF GOOD VENTILATION IS MAINTAINED.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY EMPLOYER CODE.

ENGINEERING CONTROLS: GENERAL VENTILATION NORMALLY ADEQUATE.

LEAK AND SPILL PROCEDURE: BEFORE ATTEMPTING TO CLEAN UP, REFER TO HAZARD DATA GIVEN ABOVE. SMALL SPILLS MAY BE ABSORBED WITH NON-REACTIVE ABSORBENT AND PLACED IN SUITABLE, COVERED, LABELED CONTAINERS. PREVENT LARGE SPILLS FROM ENTERING SEWERS OR WATERWAYS. CONTACT EMERGENCY SERVICES AND SUPPLIER FOR ADVICE.

WASTE DISPOSAL: REVIEW FEDERAL, STATE/PROVINCIAL, AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

HANDLING REQUIREMENTS: USE GOOD INDUSTRIAL HYGIENE PRACTICES IN HANDLING THIS MATERIAL. WASH HAND BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

STORAGE REQUIREMENTS: KEEP OUT OF REACH OF CHILDREN. STORE IN A CLOSED CONTAINER AWAY FROM INCOMPATIBLE MATERIALS, KEEP IN A DRY, COOL PLACE. AVOID STORAGE UNDER DIRECT SUNLIGHT.

#### **SECTION VIII - FIRST AID**

EYE: FLUSH WITH COOL WATER. REMOVE CONTACT LENSES, IF APPLICABLE, AND CONTINUE FLUSHING. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: FLUSH WITH COOL WATER. WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION OF IRRITATION PERSISTS. INHALATION: IF SYMPTOMS DEVELOP MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST, OBTAIN MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER AND THEN DRINK ONE OR TWO 📥 top

GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS, OR IS CONVULSING.

### **SECTION IX - PREPARATION INFORMATION**

EFFECTIVE DATE: 18-JAN-2010

EXPIRY DATE: 18-JAN-2013

ISSUE DATE: 18-JAN-2010

PREPARED BY: CLAIRE MANUFACTURING

INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY ACCURATE AND RELIABLE. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE FULL DISCLOSURE OF PRODUCT HAZARDS, IN SOME CASES DATA IS NOT AVAILABLE AND IS SO STATED. SINCE CONDITIONS OF ACTUAL PRODUCT USE ARE BEYOND CONTROL OF THE SUPPLIER, IT IS ASSUMED THAT THE USERS OF THIS MATERIAL HAVE BEEN FULLY TRAINED ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATORY INSTRUMENTS. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE AND SUPPLIER WILL NOT BE LIABLE FOR ANY LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OF OR RELIANCE ON ANY INFORMATION CONTAINED IN THIS DOCUMENT.

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MSDS



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Common Name: TOUGH GUY WASP & HORNET KILLER Manufacturer: W.W. GRAINGER MSDS Revision Date: 8/30/2007

Grainger Item Number(s): 2DCB5 Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

HMIS(R\*): HEALTH 1 FLAMMABILITY 1 REACTIVITY 1 PERSONAL PROTECTION A

IDENTITY: TOUGH GUY WASP & HORNET KILLER

PART NUMBER: 2DCB5

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

# SECTION 1: COMPANY IDENTIFICATION

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE): 100 GRAINGER PARKWAY LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

### SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ALIPHATIC HYDROCARBON	64742-47-8	NOT ESTAB.	NOT ESTAB.	100 PPM MANU.	60 - 100%
CARBON DIOXIDE	124-38-9	5000 PPM	5000 PPM	30000 PPM STEL	3 - 7%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

#### **SECTION 3: HAZARDS IDENTIFICATION**

ROUTE(S) OF ENTRY: EYES?: YES INHALATION?: YES SKIN?: YES INGESTION?: YES

ACUTE HEALTH HAZARDS: CAUTION. CAUSES MODERATE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. UNLIKELY TO BE SWALLOWED, BUT CONTAINS PETROLEUM DISTILLATES WHICH MAY PRESENT AN ASPIRATION HAZARD IF SWALLOWED. MAY BE HARMFUL IF INHALED.

CHRONIC HEALTH HAZARDS: PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS. FOLLOW LABEL INSTRUCTIONS AND GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

CARCINOGENICITY: CHEMICAL: NONE OSHA: NO NTP: NO IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE: REDNESS, DRYNESS, SCALING OR ITCHING SKIN. EXCESSIVE INHALATION OF VAPORS MAY CAUSE HEADACHES, STUPOR, OR IRRITATION OF THROAT AND EYES. SWALLOWING MAY CAUSE IRRITATION OF STOMACH AND INTESTINES RESULTING IN NAUSEA AND VOMITING.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN AND KIDNEY CONDITIONS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THIS HAZARD.

### **SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

EYES: FLUSH WITH PLENTY OF WATER (FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL.) CALL A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: UNLIKELY FROM AEROSOL CAN. IF LARGE QUANTITIES ARE SWALLOWED, CALL A A top

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PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CALL A PHYSICIAN IF IRRITATION ARISES AND PERSISTS.

NOTE TO PHYSICIAN: CONTAINS PETROLEUM DISTILLATES (>80%).

#### **SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065): 0", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA LEL: NO DATA UEL: NO DATA

EXTINGUISHING MEDIA: TREAT AS AN OIL FIRE. WATER MAY CAUSE FIRE TO FLOAT AND SPREAD. USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: CARBON DIOXIDE, CARBON MONOXIDE, OXYGEN, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 130 DEG. F. COMBUSTIBLE CONTENTS.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY. THOROUGHLY CLEAN ANY RESIDUES WITH AN EFFECTIVE CLEANING COMPOUND.

LARGE SPILL: ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PREVENT FROM ENTERING DRAINS, SEWERS OR ANY WATERCOURSE OR WATERWAY. PICK UP WITH AN ABSORBENT MATERIAL. PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. THIS PRODUCT IS TOXIC TO FISH AND AQUATIC INVERTEBRATES.

### SECTION 7: HANDLING AND STORAGE

HANDLING:

AVOID CONTACT WITH EYES OR CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. DO NOT SWALLOW. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, ELECTRIC MOTORS, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. EXPOSURE TO TEMPERATURES ABOVE 130 DEG. F MAY CAUSE BURSTING. DIRECT SPRAY AWAY FROM 📥 top

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FACE. REPLACE CAP WHEN NOT IN USE. DO NOT PUNCTURE OR INCINERATE CONTAINER. DO NOT APPLY DIRECTLY TO WATER.

STORAGE: FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 130 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION: YES, GOGGLES OR APPROVED SAFETY GLASSES (ANSI Z87)

SKIN PROTECTION: NOT USUALLY NEEDED. IF DIRECT CONTACT IS POSSIBLE, WEAR CHEMICAL RESISTANT GLOVES OR PPE.

RESPIRATORY PROTECTIONS: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. IF PELS OR TLVS ARE EXCEEDED (SEE SECTION II), FOLLOW NIOSH\MSHA RECOMMENDATIONS.

ENGINEERING CONTROLS: VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: CLEAR COLORLESS LIQUID WITH A SLIGHT PETROLEUM ODOR IN AN AEROSOL CAN. pH: NOT APPLICABLE SPECIFIC GRAVITY (70 DEG. F): 0.811

BOILING POINT (CONCENTRATE): 430 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 90 +/- 5

VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)

SOLUBILITY IN WATER: NEGLIGIBLE

VOLATILE ORGANIC COMPOUNDS (VOCS): 0 GRAMS PER LITER OR 0% BY WEIGHT VOCS

### SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, OXYGEN, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, ALKALI METALS, ALKALINE EARTH METALS, METAL ACETYLHALIDES AND CHROMIUM.

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SECTION 11: TOXICOLOG	GICAL INFORMATION		🛆 top
NO DATA			
SECTION 12: ECOLOGICA	AL INFORMATION		🛆 top
NO DATA			
SECTION 13: DISPOSAL	CONSIDERATION		🛆 top
DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE REGULATIONS.	E WITH ALL APPLICABLE L	OCAL, STATE, AND FEDERAL	
RCRA WASTE INFORMATION: IF THIS PRODUCT BECOMES DEFINED BY RCRA (40 CFR CHARACTERIZED TO EVALUAT PRIOR TO DISPOSAL.	261). HOWEVER THE WAST	E SHOULD BE PROPERLY	
SECTION 14: TRANSPOR	T INFORMATION		🛆 top
DOT INFORMATION - 49 CFI PROPER SHIPPING DESCRIPT HAZARD CLASS: ORM-D IDENTIFICATION NUMBER: 1 PACKING GROUP: NONE	IION: CONSUMER COMMODIT	Y	
AIR TRANSPORTATION: PROPER SHIPPING DESCRIPT HAZARD CLASS: 2.2 IDENTIFICATION NUMBER: U PACKING GROUP: NONE		MMABLE	
MARINE POLLUTANTS: NONE			
SECTION 15: REGULATO	RY INFORMATION		A top
US FEDERAL REGULATIONS:			
EPA PRODUCT REGISTRATION	N NUMBER: 11694-109-106	37	
TSCA (TOXIC SUBSTANCES C ALL INGREDIENTS ARE ON T ON THE TSCA INVENTORY.		RE NOT REQUIRED TO BE LISTED	
CERCLA RQ - 40 CFR 302.	4 (A): NONE LISTED		
SARA 313 COMPONENTS - 40	0 CFR 372.65:		
NAME	CAS	PERCENTAGE	
TETRAMETHRIN	7696-12-0	0.1%	
PERMETHRIN	52645-53-1	0.26%	
PIPERONYL BUTOXIDE	51-03-6	0.52%	

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

### **SECTION 16: ADDITIONAL INFORMATION**

DATE PREPARED: 08/30/07

#### WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

MSDS



### X Close this window

Common Name: DR-G-004 COMMERCIAL WASP & HORNET KILLER Manufacturer: ECOSMART TECHNOLOGIES

MSDS Revision Date: 2/19/2007

Grainger Item Number(s): 1NNX4, 8RF73 Manufacturer Model Number(s):

### **MSDS** Table of Contents

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 2. INGREDIENTS\_

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 4. FIRST AID MEASURES

 5. FIRE FIGHTING MEASURES

 6. SPILL/LEAK PROCEDURES

 7. HANDLING AND STORAGE

 8. EXPOSURE CONTROL/PERSONAL PROTECTION

 9. PHYSICAL PROPERTIES

 10. STABILITY AND REACTIVITY

 11. TOXICOLOGICAL INFORMATION

 12. ENVIRONMENTAL INFORMATION

 13. DISPOSAL

 14. TRANSPORTATION INFORMATION

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DRG004 ECOSMART COMMERCIAL WASP & HORNET KILLER

MATERIAL SAFETY DATA SHEET

THIS DOCUMENT HAS BEEN PREPARED TO MEET THE REQUIREMENTS OF THE U.S. OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, THE EU DIRECTIVE, 91/155/EEC AND OTHER REGULATORY REQUIREMENTS.

# **1. COMPANY AND PRODUCT IDENTIFICATION**

PRODUCT: DR-G-004 ECOSMART COMMERCIAL WASP & HORNET KILLER

MANUFACTURER: ECOSMART TECHNOLOGIES, INC. 318 SEABOARD LANE SUITE 208 FRANKLIN, TN 37067

EMERGENCY TELEPHONE NUMBER: INFO TRAC CHEMICAL RESPONSE SYSTEM: (800) 535-5053 (24 HOURS)

FOR GENERAL INFORMATION: (888) 326-SAFE (9AM TO 5PM EST)

# 2. INGREDIENTS

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INGREDIENT NAME	% BY WEIGHT	CAS #	EXPOSURE LIMITS
ACTIVE INGREDIENTS:			
BLEND OF ESSENTIAL OILS	4.0%		NONE ESTABLISHED
INERT INGREDIENTS:			
CARBON DIOXIDE (PROPELLANT)	3.5%		TWA: 5000 PPM
PROPRIETARY SOLVENT BLEND	TO 100%	NOT APPLICABLE	NONE ESTABLISHED

## **3. HAZARDS IDENTIFICATION**

POTENTIAL HEALTH EFFECTS: MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE EYE IRRITATION. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

FLAMMABLE: CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. DO NOT PUNCTURE OR INCINERATE CONTAINER. EXPOSURE TO TEMPERATURE ABOVE 130 DEG. F MAY CAUSE BURSTING.

## **4. FIRST AID MEASURES**

CAUTION: AVOID CONTACT WITH EYES.

IF IN EYES: FLUSH WITH PLENTY OF WATER.

IF ON SKIN: WASH WITH SOAP AND WATER.

IF INHALED: MOVE EXPOSED PERSON(S) TO FRESH AIR.

IF INGESTED: RINSE MOUTH OUT WITH WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IF NECESSARY.

# **5. FIRE FIGHTING MEASURES**

FLASH POINT: 148.9 DEG. C (300 DEG. F)

FLAMMABLE LIMITS: NOT TESTED

EXTINGUISHING MEDIA: USE FOAM, CARBON DIOXIDE, OR DRY CHEMICAL EXTINGUISHERS.

FIRE AND EXPLOSION HAZARDS: FLAMMABLE LIQUID. CONTAINER CONTENTS ARE UNDER PRESSURE.

EXPOSURE TO TEMPERATURES ABOVE 130 DEG. F COULD CAUSE BURSTING.

SPECIAL FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL TO PREVENT BURSTING. FIREFIGHTERS SHOULD HAVE EYE PROTECTION AND WEAR SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, FUMES, AND UNBURNED HYDROCARBONS AND TERPENES. 🛆 top

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🛆 top 6. SPILL/LEAK PROCEDURES IF SPILLED, ELIMINATE SOURCES OF IGNITION, ABSORB LIOUID WITH AN INERT ABSORBENT MATERIAL AND DISPOSE OF THE EMPTY CONTAINER AND ABSORBENT MATERIAL IN ACCORDANCE WITH LOCAL ORDINANCES. COMPONENTS OF THIS PRODUCT ARE NOT CONSIDERED EPA HAZARDOUS WASTES. A top 7. HANDLING AND STORAGE STORE IN A COOL, DRY AREA AWAY FROM HEAT, SPARKS OR OPEN FLAME. DO NOT SMOKE WHILE USING PRODUCT. DISPOSAL: WHEN CONTAINER IS EMPTY, RECYCLE IF AVAILABLE. IF RECYCLING IS NOT AVAILABLE, WRAP AND PLACE THE EMPTY CONTAINER IN A TRASH COLLECTOR. KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS. A top 8. EXPOSURE CONTROL/PERSONAL PROTECTION VENTILATION: LOCAL EXHAUST VENTILATION IS NOT REQUIRED. RESPIRATORY PROTECTION: NOT REQUIRED WITH ADEQUATE VENTILATION. EYE PROTECTION: NOT REQUIRED. SAFETY GLASSES ARE RECOMMENDED DURING VOLUMETRIC TREATMENTS. GLOVES: NOT REQUIRED. OTHER PROTECTIVE EQUIPMENT: NOT REQUIRED. 9. PHYSICAL PROPERTIES A top

APPEARANCE: COLORLESS LIQUID

SPECIFIC GRAVITY (WATER = 1): 0.86 G/ML

ODOR: SWEET CITRUS / MINTY SCENT

### **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

### **11. TOXICOLOGICAL INFORMATION**

RAT ACUTE ORAL: NOT DETERMINED

ACUTE EFFECTS FROM OVEREXPOSURE: THE INDIVIDUAL COMPONENTS OF THIS PRODUCT ARE KNOWN TO HAVE LOW ORAL AND DERMAL TOXICITY. THIS MIXTURE IS EXPECTED TO HAVE A SIMILAR TOXICOLOGICAL PROFILE. PROLONGED CONTACT WITH THE SKIN MAY CAUSE IRRITATION, AND CONTACT WITH THE EYES MAY CAUSE EYE IRRITATION. INHALATION OF THE VAPOR MAY CAUSE IRRITATION OF NASAL PASSAGES AND/OR DIZZINESS. INGESTION OF THIS PRODUCT COULD RESULT IN IRRITATION OF THE GASTROINTESTINAL TRACT, HEADACHE OR NAUSEA. CHRONIC EFFECTS FROM OVEREXPOSURE: NO DATA ARE AVAILABLE.

CARCINOGENICITY: NTP: NO OSHA: NO

### **12. ENVIRONMENTAL INFORMATION**

WHILE SPECIFIC DATA REGARDING TOXICITY TO FISH OR OTHER AQUATIC ORGANISMS IS NOT AVAILABLE FOR THIS PRODUCT, CARE SHOULD ALWAYS BE TAKEN TO PREVENT INSECTICIDES FROM ENTERING AQUIFERS.

### **13. DISPOSAL**

THE AEROSOL CONTAINER IS NOT REFILLABLE. WHEN CONTAINER IS EMPTY, RECYCLE IF AVAILABLE. IF RECYCLING IS NOT POSSIBLE, WRAP THE CONTAINER AND DISPOSE OF WITH ORDINARY TRASH.

### **14. TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME: CONSUMER COMMODITY

DOT HAZARD CLASS: ORM-D

### **15. REGULATORY INFORMATION**

NFPA RATINGS: HEALTH 1 FIRE 2 REACTIVITY 0 SPECIAL NONE

TSCA: NO INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

SARA TITLE III: THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS SUBJECT TO SECTION 313 (40 CFR 372) REPORTING REQUIREMENTS.

FEBRUARY 19, 2007

DRG004 ECOSMART COMMERCIAL WASP & HORNET KILLER MSDS.DOC

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# **SPECTREM 2 WHITE**

Version 1.2 REVISION DATE: 09/01/2006 Print Date 02/09/2010

TREMO

# **SECTION 1 - PRODUCT IDENTIFICATION**

Trade name Product code : SPECTREM 2 WHITE : 947806 502

: Tremco Incorporated

COMPANY

 3735 Green Road

 Cleveland, OH
 44122

 Telephone
 :
 (216) 292-5000 8:30 - 5:00 EST

 Emergency Phone:
 :
 (216) 765-6727 8:30 - 5:00 EST

 After Hours: Chemtrec 1-800-424-9300

Product use

### : Sealant

# **SECTION 2 - HAZARDS IDENTIFICATION**

## **Emergency Overview**

White. Non-sag gunnable paste. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

## Acute Potential Health Effects/ Routes of Entry

Inhalation	:	May cause slight irritation to the respiratory system.
Eyes	:	Direct contact may cause moderate irritation.
Ingestion	:	May cause irritation to the mouth, throat and stomach.
Skin	:	May cause mild irritation.

# **Aggravated Medical Conditions**

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

# **Chronic Health Effects**

Possible skin sensitization. As a by-product of curing up to 4% Methyl Ethyl Ketoxime (MEKO) may be released within product. Repeated and prolonged exposure to MEKO can cause allergic skin reaction and is a potential carcinogen (Group 2B) by IARC. It may adversely affect the blood, (methemoglobinemia and anemia). Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Organosilane may cause liver injury with fibrosis after repeated and prolonged overexposure. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Blood, Lung, Liver, Kidney

# **SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Calcium Carbonate (Limestone)	1317-65-3	40.0 - 70.0
Silicone polymer	NJ TSRN# 51721300-5110P	30.0 - 60.0
Polydimethylsiloxane, trimethyl endcap	63148-62-9	7.0 - 13.0
Amorphous silica	7631-86-9	3.0 - 7.0
Organosilane	NJ TSRN# 51721300-5368P	1.0 - 5.0
An RPM Company	1/6	947806 502



# **SPECTREM 2 WHITE**

Version 1.2 REVISION DATE: 09/01/2006 Print Date 02/09/2010

Titanium dioxide	13463-67-7	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	- <1.0

# **SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation	: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	: Flush with water for at least 15 minutes while holding eye lids apart. Get medical

ye contact	:	Flush with water for at least 15 minutes while holding eye lids apart. Get medical
		attention immediately.

Skin contact	:	Clean area of contact thoroughly using soap and water. If irritation, rash or other
		disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

# SECTION 5 - FIRE FIGHTING MEASURES

Flash point Method	:	Not available. Not available.
Burning rate	:	Non-flammable solid
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Smoke, fumes.Carbon monoxide and carbon dioxide can form.Silicon oxides and trace amounts of MEKO.
Protective equipment for firefighters	:	Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	This product not expected to ignite under normal conditions of use.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Keep out of water courses. Scrape up and transfer to appropriate container for disposal.

# SECTION 7 - HANDLING AND STORAGE

Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Do not use in confined or poorly ventilated areas. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Change soiled work clothes frequently. Clean hands thoroughly after handling. Store in sealed containers in a cool, dry, ventilated warehouse location.

RPIT Company



# **SPECTREM 2 WHITE**

Version 1.2 REVISION DATE: 09/01/2006 Print Date 02/09/2010

# **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

# Personal protection equipment

Respiratory protection	:	Wear appropriate, properly fitted NIOSH/MSHA approved respirator, as directed by the manufacturer, when the airborne contaminant level(s) exceed the exposure limits indicated on the MSDS.
Hand protection	:	Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
Eye protection	:	Wear appropriate eye protection.Use safety glasses if eye contact is likely.
Skin and body protection	:	Prevent contact with shoes and clothing.
Protective measures	:	Use professional judgment in the selection, care, and use.
Engineering measures	:	General ventilation is sufficient.

### **Exposure Limits**

CAS Number	<b>Regulation</b>	<u>Limit</u>	<u>Form</u>
1317-65-3	OSHA PEL:	5 mg/m3	Respirable fraction.
	OSHA PEL:	15 mg/m3	Total dust.
	ACGIH TWA:	3 mg/m3	Respirable particles.
	ACGIH TWA:	10 mg/m3	Inhalable particles.
	OSHA TWA:	15 mg/m3	Total dust.
	OSHA TWA:	5 mg/m3	Respirable fraction.
7631-86-9	ACGIH TWA:	3 mg/m3	Respirable particles.
	ACGIH TWA:	10 mg/m3	Inhalable particles.
	OSHA PEL:	15 mg/m3	Total dust.
	OSHA PEL:	5 mg/m3	Respirable fraction.
	OSHA TWA:	0.8 mg/m3	
13463-67-7	ACGIH TWA:	10 mg/m3	
	OSHA PEL:	15 mg/m3	Total dust.
	OSHA TWA:	15 mg/m3	Total dust.
	OSHA TWA:	5 mg/m3	Respirable fraction.
14808-60-7	ACGIH TWA:	0.05 mg/m3	Respirable fraction.
	OSHA TWA:	0.1 mg/m3	Respirable.
	OSHA TWA:	0.3 mg/m3	Total dust.
	OSHA PEL:	15 mg/m3	Total dust.
	OSHA PEL:	5 mg/m3	Respirable fraction.
	1317-65-3 7631-86-9 13463-67-7	1317-65-3OSHA PEL: OSHA PEL: ACGIH TWA: ACGIH TWA: OSHA TWA: OSHA TWA:7631-86-9ACGIH TWA: ACGIH TWA: 	1317-65-3OSHA PEL: OSHA PEL: 15 mg/m3 ACGIH TWA: ACGIH TWA: 3 mg/m3 ACGIH TWA: 10 mg/m3 OSHA TWA: 0SHA TWA: 15 mg/m37631-86-9ACGIH TWA: ACGIH TWA: OSHA PEL: 0SHA PEL: 15 mg/m3 OSHA PEL: 15 mg/m3 OSHA TWA: 0SHA PEL: 15 mg/m33 mg/m3 mg/m3 OSHA PEL: 15 mg/m3 OSHA PEL: 15 mg/m3 OSHA TWA: 10 mg/m3 OSHA PEL: 15 mg/m3 OSHA TWA: 0SHA PEL: 15 mg/m313463-67-7ACGIH TWA: OSHA PEL: 15 mg/m3 OSHA TWA: 0SHA TWA: 0SHA TWA: 15 mg/m3 OSHA TWA: 0SHA TWA: 0SHA TWA: 15 mg/m3 OSHA TWA: 0SHA TWA: 0.05 mg/m3 OSHA TWA: 0.1 mg/m3 OSHA PEL: 15 mg/m3 OSHA PEL: 15 mg/m3 OSHA TWA: 0.3 mg/m3 OSHA PEL: 15 mg/m3

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form Color

Odor

: Non-sag gunnable paste

: Not available.

- : White
- : Oxime
- pH : Not available.
- Vapour pressure
- n **RPM** Company

-	et	TREMCO.
PECTREM 2 WHITE		
ersion <i>1.2</i> EVISION DATE: 09/01/2006		Print Date 02/09/2010
Vapor density	: Heavier than air	
Melting point/range	: Not available.	
Freezing point	: Not available.	
Boiling point/range	: Not available.	
Water solubility	: Negligible	
Specific Gravity	: 1.34	
% Volatile Weight	: 3%	
ECTION 10 - REACTIVIT	Y / STABILITY	
Substances to avoid	: Strong acids.Strong bases.A	Icohols.Water or moisture and oxidizing agents.
Stability	: Material is stable under norm	nal storage, handling, and use.
Hazardous polymerization	: Will not occur.	
ECTION 11 - TOXICOLOG Amorphous silica, CAS-No.: Acute oral toxicity (LD-	7631-86-9 50 oral) 22,500 mg/kg (	Rat )
Amorphous silica, CAS-No.:	7631-86-9 50 oral) 22,500 mg/kg (	Rat )
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC	7631-86-9 50 oral) 22,500 mg/kg( AL INFORMATION	Rat )
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa	7631-86-9 50 oral) 22,500 mg/kg( AL INFORMATION CONSIDERATIONS	sinerate at EPA approved facility or dispose of
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa	7631-86-9         50 oral)       22,500 mg/kg (         AL INFORMATION         CONSIDERATIONS         aste not regulated under RCRA. Inc.         ste in compliance with state and loc         RTATION / SHIPPING DATA	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa	7631-86-9         50 oral)       22,500 mg/kg (         AL INFORMATION         CONSIDERATIONS         aste not regulated under RCRA. Inc.         ste in compliance with state and loc         RTATION / SHIPPING DATA	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa ECTION 14 - TRANSPOR TDG / DOT Shipping Descr	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc ste in compliance with state and loc RTATION / SHIPPING DATA ription:	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGICA No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa ECTION 14 - TRANSPOR TDG / DOT Shipping Descr NOT REGULATED	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc ste in compliance with state and loc RTATION / SHIPPING DATA ription:	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGICA No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa ECTION 14 - TRANSPOR TDG / DOT Shipping Descr NOT REGULATED ECTION 15 - REGULATO North American Inventorie All components are listed or	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc ste in compliance with state and loc RTATION / SHIPPING DATA ription: ORY INFORMATION es: exempt from the TSCA inventory.	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGICA No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa ECTION 14 - TRANSPOR TDG / DOT Shipping Descr NOT REGULATED ECTION 15 - REGULATO North American Inventorie All components are listed or	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc ste in compliance with state and loc RTATION / SHIPPING DATA ription: ORY INFORMATION es: exempt from the TSCA inventory.	cinerate at EPA approved facility or dispose of cal regulations.
Amorphous silica, CAS-No.: Acute oral toxicity (LD- ECTION 12 - ECOLOGIC No Data Available ECTION 13 - DISPOSAL Disposal Method : Wa wa ECTION 14 - TRANSPOR TDG / DOT Shipping Descr NOT REGULATED ECTION 15 - REGULATO North American Inventorie All components are listed or This product or its component	7631-86-9 50 oral) 22,500 mg/kg ( AL INFORMATION CONSIDERATIONS aste not regulated under RCRA. Inc ste in compliance with state and loc RTATION / SHIPPING DATA ription: PRY INFORMATION es: exempt from the TSCA inventory. nts are listed on, or exempt from the	cinerate at EPA approved facility or dispose of cal regulations.
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# TREMCO.

# SDECTDEM 2 WHITE

sion 1.2 /ISION DATE: 09/01/2006	Print Date 02/09/20
ASION DATE: 09/01/2000	
Chronic Health Hazard	
OSHA Hazardous Components :	
Calcium Carbonate (Limestone)1317-65-3Amorphous silica7631-86-9Titanium dioxide13463-67-7Crystalline Silica (Quartz)/ Silica Sand14808-60-7	
OSHA Status: Considered : Irritant hazardous based on the Carcinogen following criteria:	
OSHA Flammability : Not Regulated	
Regulatory VOC (less water and : 42 g/l exempt solvent)	
VOC Method 310 : 3 %	
Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen: Crystalline Silica (Quartz)/ Silica Sand 14808-60-7	
U.S. State Regulations:	
MASS RTK Components : Calcium Carbonate (Limestone) Amorphous silica Titanium dioxide	1317-65-3 7631-86-9 13463-67-7
Penn RTK Components : Calcium Carbonate (Limestone) Silicone polymer Polydimethylsiloxane, trimethyl endcap Amorphous silica Titanium dioxide	1317-65-3 NJ TSRN# 51721300-5110I 63148-62-9 7631-86-9 13463-67-7
NJ RTK Components : Calcium Carbonate (Limestone) Silicone polymer Polydimethylsiloxane, trimethyl endcap Amorphous silica Organosilane Crystalline Silica (Quartz)/ Silica Sand	1317-65-3 NJ TSRN# 51721300-5110  63148-62-9 7631-86-9 NJ TSRN# 51721300-5368  14808-60-7
Chemicals known to the State of California to cause cancer birth defects a14808-60-7Crystalline Silica (Quartz)/ Silica Sand64-17-5Ethyl alcohol	nd/or other reproductive harm:
CTION 16 - OTHER INFORMATION	
HMIS Rating :	
Health20 = MinimumFlammability11 = SlightReactivity02 = ModeratePPE3 = Serious	

4 = Severe

# **SPECTREM 2 WHITE**

## Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

### Prepared by: Rich Mikol

# Legend

Ecgena	
ACGIH - American Conference of Governmental Hygienists	PEL - Permissible Exposure Limit
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	RCRA - Resource Conservation and Recovery Act
DOT - Department of Transportation	RTK - Right To Know
DSL - Domestic Substance List	SARA - Superfund Amendments and Reauthorization Act
EPA - Environmental Protection Agency	STEL - Short Term Exposure Limit
HMIS - Hazardous Materials Information System	TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer	TSCA - Toxic Substances Control Act
MSHA - Mine Safety Health Administration	TWA - Time Weighted Average
NDSL - Non-Domestic Substance List	V - Volume
NIOSH - National Institute for Occupational Safety and Health	VOC - Volatile Organic Compound
NTP - National Toxicology Program	WHMIS - Workplace Hazardous Materials Information System
OSHA - Occupational Safety and Health Administration	

Version 1.2 **REVISION DATE: 09/01/2006** 

n RPM Company

Print Date 02/09/2010



# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 2.0

Print Date 05/16/2013

# REVISION DATE: 07/08/2012

# SECTION 1 - PRODUCT IDENTIFICATION

Trade name Product code TREMSTOP ACRYLIC RUST RED 17L PAIL 901874 805

COMPANY

 Cleveland, OH
 44122

 Telephone
 :
 (216)
 292-5000
 8:30 - 5:00
 EST

 Emergency Phone:
 :
 (216)
 765-6727
 8:30 - 5:00
 EST

 After Hours:
 Chemtrec
 1-800-424-9300

Product use

: Sealant

: Tremco Incorporated 3735 Green Road

:

# SECTION 2 - HAZARDS IDENTIFICATION

## **Emergency Overview**

Rust Red. Non-sag gunnable paste. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

## Acute Potential Health Effects/ Routes of Entry

Inhalation:May cause slight irritation to the respiratory system.Eyes:Slightly irritating.Ingestion:May cause irritation to the mouth, throat and stomach.Skin:Irritant effect may be delayed.

# Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

# **Chronic Health Effects**

Long term overexposure to propylene glycol caused liver abnormalities, kidney damage in laboratory animals. Repeated excessive ingestion may cause central nervous system effects. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

# **SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %	
Acrylic polymer	NJ TSRN# 51721300-5277P	40.0 - 70.0	
Water	7732-18-5	30.0 - 60.0	
White mineral oil	8042-47-5	7.0 - 13.0	
Amorphous silica	7631-86-9	1.0 - 5.0	
Propylene glycol	57-55-6	1.0 - 5.0	
Ammonium hydroxide	1336-21-6	- <1.0	
Zinc oxide	1314-13-2	- <1.0	
Chlorothalonil	1897-45-6	- <1.0	
Formaldehyde	50-00-0	- <0.1	



# TREMSTOP ACRYLIC RUST RED 17L PAIL

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# SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Euro constant		Fluck with water for 45 minutes. If initation persists, and medical attention

Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.

Skin contact : Wash with water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

# SECTION 5 - FIRE FIGHTING MEASURES

Flash point Method	:	Not available. Not available.
Burning rate	:	Non-flammable solid
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Extinguishing media	:	This product is not expected to burn under normal conditions of use.Use that which is appropriate to the surroundings.
Hazardous combustion products	:	Smoke, fumes.
Protective equipment for firefighters	:	Not applicable. Product is not expected to burn.
Fire and explosion conditions	:	This product not expected to ignite under normal conditions of use.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal. Keep out of water courses.

# SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not use in confined or poorly ventilated areas. Store in sealed containers in a dry, ventilated warehouse location above freezing.

# **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Personal protection equipment

RPM Company 2/6 901874 805



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Respiratory protection	: Not required under normal conditions of use.	
Hand protection	: Protect hands with impervious gloves.	
Eye protection	: Use safety glasses if eye contact is likely.	
Protective measures	: Use professional judgment in the selection, care, and use. Other equipment not normally required.	ent
Engineering measures	: General ventilation is sufficient.Use local exhaust when the general ventilation is inadequate.	

## **Exposure Limits**

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Amorphous silica	7631-86-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 0.8 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction.
Ammonium hydroxide	1336-21-6	ACGIH TWA: ACGIH STEL: OSHA PEL:	25 ppm 35 ppm 35 mg/m3	
Zinc oxide	1314-13-2	ACGIH TWA: ACGIH STEL: OSHA PEL: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 10 mg/m3 5 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable fraction. Fume. Respirable fraction. Total dust. Total dust. Respirable fraction.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Non-sag gunnable paste
Color	: Rust Red
Odor	: Mild Glycol Acrylate
рН	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: < 32 °C, < 90 °F
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Miscible
Specific Gravity	: 1.04
% Volatile Weight	: 35 %



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# **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid

: Oxidizing agents.Strong acids.Strong bases.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Amorphous silica, CAS-No.: 7631-86-9 Acute oral toxicity (LD-50 oral)	22,500 mg/kg (Rat)15,000 mg/kg (Mouse)
Propylene glycol, CAS-No.: 57-55-6 Acute oral toxicity (LD-50 oral)	30,000 mg/kg (Rat)18,000 mg/kg (Rabbit)19,000 mg/kg (Dog)23,900 - 31,800 mg/kg (Mouse)18,400 - 196,000 mg/kg (Guinea pig)
Ammonium hydroxide, CAS-No.: 1336-21-6 Acute oral toxicity (LD-50 oral)	350 mg/kg (Rat)
Zinc oxide, CAS-No.∶ 1314-13-2 Acute oral toxicity (LD-50 oral)	7,950 mg/kg (Mouse)7,950 mg/kg (Mouse)
Chlorothalonil, CAS-No.∶ 1897-45-6 Acute oral toxicity (LD-50 oral) Acute dermal toxicity (LD-50 dermal)	10,000 mg/kg (Rat) 10,000 mg/kg (Albino rat)
Formaldehyde, CAS-No.: 50-00-0 Acute oral toxicity (LD-50 oral) Acute inhalation toxicity (LC-50)	800 mg/kg (Rat) 260 mg/kg (Guinea pig) 100 mg/kg (Rat ) 42 mg/kg (Mouse) 0.82 mg/l for 30 min (Rat) 0.48 mg/l for 4 h (Rat) 0.414
	mg/l for 4 h (Mouse)0.4 mg/l for 2 h (Mouse)

# **SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

# SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

# SECTION 14 - TRANSPORTATION / SHIPPING DATA

# CFR / DOT:

Not Regulated

TDG:

Not Regulated

An **RPIII** Company 4/6 901874 805



# TREMSTOP ACRYLIC RUST RED 17L PAIL

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# IMDG:

Not Regulated

# **SECTION 15 - REGULATORY INFORMATION**

## North American Inventories:

All components are listed or exempt from the TSCA inventory. This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

# U.S. Federal Regulations:

SARA 313 Components	: Chlorothalonil	1897-45-6
SARA 311/312 Hazards	: Acute Health Hazard	
OSHA Hazardous Componer	ts :	
Amorphous silica Ammonium hydroxide Zinc oxide Chlorothalonil Formaldehyde	7631-86-9 1336-21-6 1314-13-2 1897-45-6 50-00-0	
OSHA Status: Considered hazardous based on the following criteria:	: Irritant	
OSHA Flammability	: Not Regulated	
Regulatory VOC (less water a exempt solvent)	ind : 35 g/l	
VOC Method 310	: 1%	
U.S. State Regulations:		
MASS RTK Components :	Amorphous silica Formaldehyde	7631-86-9 50-00-0
Penn RTK Components :	Acrylic polymer Water White mineral oil Amorphous silica Propylene glycol	NJ TSRN# 51721300-5277P 7732-18-5 8042-47-5 7631-86-9 57-55-6
NJ RTK Components :	Acrylic polymer Water White mineral oil Amorphous silica Propylene glycol	NJ TSRN# 51721300-5277P 7732-18-5 8042-47-5 7631-86-9 57-55-6
Components under California	Proposition 65:	
An RPM Company 5/6 901874 80	5	



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# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 2.0

**REVISION DATE: 07/08/2012** 

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

# **SECTION 16 - OTHER INFORMATION**

### HMIS Rating :

Health	1
Flammability	0
Reactivity	0
PPE	

0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

### Prepared by: Rich Mikol

### Legend

ACGIH - American Conference of Governmental Hygienists CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act DOT - Department of Transportation DSL - Domestic Substance List EPA - Environmental Protection Agency HMIS - Hazardous Materials Information System IARC - International Agency for Research on Cancer MSHA - Mine Safety Health Administration NDSL - Non-Domestic Substance List NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program OSHA - Occupational Safety and Health Administration PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTK - Right To Know SARA - Superfund Amendments and Reauthorization Act STEL - Short Term Exposure Limit TLV - Threshold Limit Value TSCA - Toxic Substances Control Act TWA - Time Weighted Average V - Volume VOC - Volatile Organic Compound WHMIS - Workplace Hazardous Materials Information System MSDS Revision Date (mm/dd/yyyy): 08/28/2013

SECTION 1 - IDENTIFICATION		
Product identifier	:	Trim-Tex 847 Adhesive
Product Code(s)	:	None reported.
Product Use	:	Adhesive
Chemical Family	:	Mixture
Supplier's name and address:		Manufacturer's name and address:
TRIM-TEX, Inc. 3700 W. Pratt Avenue Lincolnwood, IL, USA 60712		Refer to Supplier
Information Telephone #	:	847-679-3000 (8 AM - 4:30 PM, CST, Monday-Friday)
24 Hr. Emergency Tel #	:	Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).
SECTION 2 - HAZARDS ID	EN	TIFICATION
Classification : This material is classified as hazardous under OSHA regulations (29C 1910.1200). Hazardous classification: Compressed gas Flammable aerosol Acute Health Hazard Chronic Health Hazard		Compressed gas Flammable aerosol Acute Health Hazard
		This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS Classification: Class A (Pressurized containers)

Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

DANGER! Extremely flammable aerosol. Contents under pressure. Contents may catch fire. Container may explode if heated. Causes severe eye irritation. May be harmful if inhaled or swallowed. Inhalation may cause respiratory irritation and central nervous system depression. Prolonged or repeated skin contact may cause drying and irritation. Contains material which may be a teratogen. May cause liver and kidney

Class B5 (Flammable Aerosols)

damage.

: Pink liquid aerosol. Odour of mint and acetone.

# **MATERIAL SAFETY DATA SHEET**

### **POTENTIAL HEALTH EFFECTS:**

**Emergency Overview** 

### Signs and symptoms of short-term (acute) exposure

Inhalation	:	May be fatal if inhaled. May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.
Skin	:	May cause mild skin irritation. Symptoms may include redness, itching and swelling. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.
Eyes	:	Direct contact causes severe irritation and possibly eye injury Symptoms may include redness, itching and swelling. If product is sprayed directly into the eyes, could cause freezing of the eye.
Ingestion	:	Not an expected route of entry under normal conditions of use. However, if the product is sprayed directly into mouth and large amounts of the liquid concentrate are swallowed, it may cause irritation to the mouth, throat and stomach. Symptoms may include abdominal pain, nausea, vomiting, diarrhea and collapse. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Effects of long-terr	m	(chronic) exposure
Carcinogenic statu	JS	<ul> <li>Prolonged or repeated contact may cause drying, cracking and defatting of the skin.</li> <li>Prolonged overexposure may cause liver and kidney effects. Prolonged overexposure may cause peripheral neuropathy, damage to the nerves of the hands and feet.</li> <li>See TOXICOLOGICAL INFORMATION, Section 11.</li> </ul>
Additional health h	naz	ards : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

MSDS Revision Date (mm/dd/yyyy): 08/28/2013

#### Potential environmental effects

#### : See ECOLOGICAL INFORMATION, Section 12.

CTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredients	CAS #	Wt.%	
Acetone	67-64-1	15.00 - 40.00	
Propane	74-98-6	10.00 - 30.00	
Hexane	110-54-3	10.00 - 30.00	
Dimethyl ether	115-10-6	7.00 - 13.00	
Foluene	108-88-3	3.00 - 7.00	
Alkanes, C12-14, iso-	68551-19-9	1.00 - 5.00	

### **SECTION 4 - FIRST AID MEASURES**

Inhalation	<ul> <li>Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration.</li> <li>Seek immediate medical attention/advice.</li> </ul>
Skin contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persists, seek prompt medical attention.
Eye contact	: Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.
Ingestion	<ul> <li>Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek immediate medical attention/advice. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</li> </ul>
Notes For Physician	: Treat symptomatically.

### **SECTION 5 - FIRE FIGHTING MEASURES**

Extremely flammable aerosol. Will ignite when exposed to heat, flame and other sources of ignition. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Product may float, and be re-ignited at the water's surface.
 14 29 CFR 1910.1200)

### Flammability classification (OSHA 29 CFR 1910.1200)

	: Flammable aerosol.		
Oxidizing properties	: None known.		
Explosion data: Sensitivity to mechanical impact / static discharge			
	: Aerosols are sensitive to mechanical impact. May be sensitive to static discharge.		
Suitable extinguishing media	: Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.		
Special fire-fighting procedures/	quipment		
	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Shield personnel to protect from venting or rupturing containers. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.		
Hazardous combustion products			
	<ul> <li>Carbon oxides; Hydrocarbons; Aldehydes; acetic acid; Sulphur oxides; Nitrogen oxides (NOx); irritating fumes and smoke.</li> </ul>		
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe		
	: Health: 2 Flammability: 4 Instability: 0 Special Hazards: None		

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

MSDS Revision Date (mm/dd/yyy	: 08/28/2013	Page 3 of 7
Environmental precautions	: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.	
Spill response/cleanup	: Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.	
Prohibited materials	: None known.	
Special spill response procedure		
	: In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002). US CERCLA Reportable quantity (RQ): Acetone (5000 lbs / 2270 kg); Hexane(5000 lbs / 2270 kg); toluene (1000 lbs / 454 kg).	
SECTION 7 - HANDLING A	ID STORAGE	

Safe Handling procedures	: Extremely flammable aerosol. Wear protective equipment during handling. Use in a well-ventilated area. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat and sources of ignition. Ground all equipment during handling. Use caution when opening cap. Do not puncture or incinerate containers. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Storage requirements	: Store in a cool, dry, well ventilated area. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatible materials	: Strong oxidizing agents; Acids; Reducing agents.
Special packaging materials	: Always keep in containers made of the same materials as the supply container.

# SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Limits

	ACGIH TLV		OSHA PEL	
Ingredients	TWA	STEL	PEL	STEL
Acetone	500 ppm	750 ppm	1000 ppm	N/Av
Propane	1000 ppm	N/Av	1000 ppm	N/Av
Hexane	50 ppm	N/Av	500 ppm	N/Av
Dimethyl ether	1000ppm	N/Av	N/Av	N/Av
Toluene	50 ppm	N/Av	200 ppm	N/Av
Alkanes, C12-14, iso-	N/Av	N/Av	N/Av	N/Av

\* Note: The ACGIH TLV listed above for the following ingredient(s) is an AIHA WEEL: Dimethyl ether. The ACGIH TLV listed above for Propane is for 'Aliphatic hydrocarbon gases'.

### Ventilation and engineering measures

	vide sufficient ventilation to keep vapour concentra L.	ation below the given TLV and/or
Respiratory protection	spiratory protection is required if the concentrations DSH-approved respirators are recommended. See tection specialists.	
Skin protection	pervious gloves must be worn when using this proc n glove suppliers.	luct. Advice should be sought
Eye / face protection	emical splash goggles must be worn when handlin	g this material.
Other protective equipment	ar resistant clothing and boots. An eyewash statio de available in the immediate working area.	n and safety shower should be
General hygiene considerations		

General hygiene considerations

MSDS Revision Date (mm/dd/yyyy): 08/28/2013

: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9 - PHYSICAL A	ND CHENIICAL I KUI EKI	11.0	
Physical state	: Liquid aerosol.	Appearance	: Pink liquid aerosol.
Odour	: acetone-like	Odour threshold	: N/Av
оН	: N/Av		
Boiling point	41°C / -44°F (acetone	Specific gravity	: 0.71
Jenning Penni	) - 244°C / 472°F	opcomo gravity	
	(C12-C14 Isoalkanes)		
Melting/Freezing point	: N/Av	Coefficient of water/oil distrib	oution
			: N/Av
/apour pressure (mmHg @ 20° (	C / 68° F)	Solubility in water	: negligible
	: (approximately) 57		
	psig		
/apour density (Air = 1)	: Heavier than air.	Evaporation rate (n-Butyl ace	
			: faster than butyl acetate
olatile organic Compounds (VO	-	Volatiles (% by weight)	: 76.9
	: 52.4%	_	
lash point	: (propellant) -104°C / -156°		
lash point Method	: Pensky Martens Closed	Auto-ignition temperature	: N/Av
ower flammable limit (% by vol.	Cup	Upper flammable limit (% by v	vol )
ower naminable mint (% by VOI.	.) : 1%	opper naminable innit ( / by )	: 18%
Flame Projection Length	: 76 cm (30")	Flashback observed	: YES
			. 120
ection 10: Stability And Rea	nctivity		
-	-	nded storage and handling conditi	ions prescribed.
Stability and reactivity	-	ided storage and handling condition	ions prescribed.
tability and reactivity lazardous polymerization	: Stable under the recommer : Will not occur.	nded storage and handling condition n heat, sparks, flame, and other s	
Stability and reactivity lazardous polymerization Conditions to avoid	<ul> <li>Stable under the recommer</li> <li>Will not occur.</li> <li>Keep this product away fror pilot lights, electric motors,</li> </ul>		sources of ignition (e.g.
Stability and reactivity lazardous polymerization Conditions to avoid	<ul> <li>Stable under the recommer</li> <li>Will not occur.</li> <li>Keep this product away fror pilot lights, electric motors, atibility</li> </ul>	n heat, sparks, flame, and other s static electricity). Exposure to sur	sources of ignition (e.g.
itability and reactivity lazardous polymerization conditions to avoid laterials To Avoid And Incompa	<ul> <li>Stable under the recommer</li> <li>Will not occur.</li> <li>Keep this product away fror pilot lights, electric motors,</li> <li>atibility</li> <li>Incompatible materials (see</li> </ul>	n heat, sparks, flame, and other s static electricity). Exposure to sur	sources of ignition (e.g.
Stability and reactivity lazardous polymerization Conditions to avoid Materials To Avoid And Incompa	<ul> <li>Stable under the recommer</li> <li>Will not occur.</li> <li>Keep this product away fror pilot lights, electric motors, atibility</li> <li>Incompatible materials (see ucts</li> </ul>	n heat, sparks, flame, and other s static electricity). Exposure to sur	sources of ignition (e.g. nlight.
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Acetone Propane Hexane	<ul> <li>Stable under the recommer</li> <li>Will not occur.</li> <li>Keep this product away fror pilot lights, electric motors, atibility</li> <li>Incompatible materials (see ucts</li> <li>None known, refer to hazar</li> </ul> GICAL INFORMATION <ul> <li>Eyes, skin, respiratory syste</li> <li>Inhalation: YES Skin A</li> <li>There is no available dat below for individual ingre</li> </ul> LC50(4hr) <ul> <li>inh, rat</li> <li>30000 ppm</li> </ul> N/Av <ul> <li>38500ppm</li> </ul>	n heat, sparks, flame, and other s static electricity). Exposure to sur e Section 7). dous combustion products in Sec em, central nervous system, liver <i>lbsorption:</i> YES <i>Skin &amp; Eye</i> a for the product itself, only for dient acute toxicity data.	sources of ignition (e.g. hlight. etion 5. and kidneys. s: YES Ingestion: YES r the ingredients. See LD50 (Rabbit, dermal) >16000mg/kg N/Av N/Av
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Reproductive effects : Not expected to have other reproductive effects.

Not expected to be mutagenic in humans.

- Teratogenicity
- : Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.

:

Mutagenicity

MSDS Revision Date (mm/dd/yyyy): 08/28/2013

Mobe revision bate (min/da/yyyy).			
Epidemiology	:	Not available.	
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.	
Synergistic materials	:	Not available.	
Irritancy	:	May cause eye, skin and respiratory tract irritation.	
other important hazards	:	None known.	
Conditions aggravated by overexposure			
	:	Pre-existing skin, eye, respiratory and central nervous system disorders.	

## **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity	:	No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
Mobility	:	No data is available on the product itself.
Persistence	:	No data is available on the product itself.
Bioaccumulation potential	:	No data is available on the product itself.
Other Adverse Environmental	effect	S
	:	No data is available on the product itself.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Handling for Disposal Methods of Disposal	Handle waste according to recommendations in Section 7. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.	
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.	

Regulatory	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	UN1950	Aerosols	2.1	none	2
49CFR/DOT Additional information	shipping informati	ground within the United States, the Limited Quantity e ion, refer to 49 CFR Section 173.306. Domestic US gro I-D. Outer cartons must have the ORM-D designation.	ound shipments may be sh	ipped as Cons	
ICAO/IATA	UN1950	Aerosols	2.1	none	
ICAO/IATA Additional information	N/Av	1			
TDG	UN1950	AEROSOLS	2.1	none	
TDG Additional information	TDGR, refer to So to ship within Car	be shipped by ground within Canada as a Limited Qua ection 1.17 for additional exemption information, if ship ada as a Consumer Commodity, product containers m ntainer Regulations (CCCR 2001).	oing under this exemption.	Note that in o	rder

### SECTION 15 - REGULATORY INFORMATION

### **US Federal Information:**

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Acetone (5000 lbs / 2270 kg); Hexane (5000 lbs / 2270 kg); toluene (1000 lbs / 454 kg).

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SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Hexane; toluene.

### US State Right to Know Laws:

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: acetone (CAS 67-64-1; 15-40%); Propane (CAS 74-98-6; 10-30%); Hexane (CAS 110-54-3; 10-30%); Dimethyl ether (CAS 115-10-6; 7-13%); toluene (CAS 108-88-3; 3-7%); C12-C14 Isoalkanes (CAS 68551-19-9; 1-5%)

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and/or reproductive harm. This product contains: toluene.

#### International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION		
HMIS Rating	: <u>*-</u> Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe <i>Health:</i> *2 <i>Flammability:</i> 4 <i>Reactivity:</i> 1	
Legend	<ul> <li>ACGIH: American Conference of Governmental Industrial Hygienists CA: California</li> <li>CAS: Chemical Abstract Services</li> <li>CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980</li> <li>CFR: Code of Federal Regulations</li> <li>DOT: Department of Transportation</li> <li>EPA: Environmental Protection Agency</li> <li>HMIS: Hazardous Substances Data Bank</li> <li>IARC: International Agency for Research on Cancer</li> <li>Inh: Inhalation</li> <li>N/Ap: Not Applicable</li> <li>N/Av: Not Available</li> <li>NFPA: National Fire Protection Association</li> <li>NIOSH: National Fire Protection Association</li> <li>NOSH: National Institute of Occupational Safety and Health</li> <li>NTP: National Toxicology Program</li> <li>OSHA: Occupational Safety and Health Administration</li> <li>PEL: Permissible exposure limit</li> <li>RCRA: Resource Conservation and Recovery Act</li> <li>RTECS: Registry of Toxic Effects of Chemical Substances</li> <li>SARA: Superfund Amendments and Reauthorization Act</li> <li>STEL: Short Term Exposure Limit</li> <li>TDG: Canadian Transportation of Dangerous Goods Act &amp; Regulations</li> <li>TLV: Threshold Limit Values</li> <li>TPQ: Threshold Planning Quantity</li> <li>TSCA: Toxic Substance Control Act</li> <li>TWA: Time Weighted Average</li> <li>WHMIS: Workplace Hazardous Materials Identification System</li> </ul>	

MSDS Revision Date (mm/dd/yyyy): 08/28/2013

References	<ul> <li>1. ACGIH, Threshold Limit Values and Biological Exposure Indices</li> <li>2. International Agency for Research on Cancer Monographs</li> <li>3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases (Chempendium, HSDB and RTECs).</li> <li>4. Material Satefy Data Sheets from manufactuer.</li> <li>5. US EPA Title III List of Lists</li> <li>6. California Proposition 65 List</li> </ul>
Drepared for	

Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com	E The Compliance Center Inc.
Telephone: 847-679-3000 Direct all enquiries to:TRIM-TEX.	
3700 W. Pratt Avenue Lincolnwood, IL, USA 60712	
TRIM-TEX, Inc.	

### DISCLAIMER OF LIABILITY

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from Trim-Tex Inc and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Trim-Tex Inc expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and Trim-Tex Inc.

Preparation Date (mm/dd/yyyy)

	:	10/04/2010
MSDS Revision Date (mm/dd/yy	yy)	
	:	08/28/2013
Revision No.	:	3
Revision Information	:	Scheduled update

END OF DOCUMENT



# SAFETY DATA SHEET

# 1. Identification

Product identifier	LATICRETE 1600 Unsanded Grout
Other means of identification	Not available.
Recommended use	Grout.
<b>Recommended restrictions</b>	None known.
Manufacturer / Importer / Suppli	er / Distributor information
Company Name Address	LATICRETE International 1 Laticrete Park, N Bethany, CT 06524
Telephone	(203)-393-0010
Contact person Website Emergency phone number	Steve Fine www.laticrete.com Call CHEMTREC day or night USA/Canada - 1.800.424.9300 Mexico - 1.800.681.9531 Outside USA/Canada 1.703.527.3887

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	

### Label elements



Signal word		
Hazard statement		

Precautionary statement Prevention

Danger
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.
Do not breathe dust/fume. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace.

Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
zard(s) not otherwise	Not classified.

Hazard(s) not otherwise classified (HNOC)

# 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Portland Cement	65997-15-1	28 - 38
Calcium hydroxide	1305-62-0	2 - 3
Magnesium hydroxide	1309-42-8	2 - 2.25

Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Rash. Coughing. Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

ounable exalligaterining inteata	
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep upwind. Avoid formation of dust. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Sweep or shovel up material and place in a clearly labeled container for waste. Collect dust using a vacuum cleaner. Following product recovery, flush area with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Wear appropriate personal protective equipment. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry place out of direct sunlight.

# 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Calcium hydroxide (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Portland Cement (CAS 65997-15-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 191	0.1000)		
Components	Туре	Value	
Portland Cement (CAS 65997-15-1)	TWA	50 millions of particle	

# US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
US NIOSH Pocket Guide to	Chemical Hazards: Recommended e	exposure limit (REL)	
Components	Туре	Value	Form
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
iological limit values	No biological exposure limits noted f	or the ingredient(s).	
ppropriate engineering ontrols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to mair exposure limits have not been estab eyewash station.	applicable, use process enclosu ntain airborne levels below reco	ures, local exhaust ventilation, ommended exposure limits. If
dividual protection measures	s, such as personal protective equipn	nent	
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
Skin protection			
Hand protection	Wear chemical-resistant, impervious	gloves.	
Other	Wear appropriate chemical resistant	clothing.	
<b>Respiratory protection</b>	Wear a dust mask if dust is generate	ed above exposure limits.	
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of th workplace.		

# 9. Physical and chemical properties

	-
Appearance	
Physical state	Solid.
Form	Powder.
Color	Colored.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not flammable or combustible.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Insoluble

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Swallowing may cause gastrointestinal irritation.
Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact	Causes skin irritation. May cause an allergic skin reaction. Prolonged contact with wet cement/mixture may cause burns.
Eye contact	Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.
Symptoms related to the physical, chemical and toxicological characteristics	Rash. Coughing. Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

#### Information on toxicological effects

Acute toxicity

May cause respiratory irritation.

Components	Species	Test Results			
Calcium hydroxide (CAS 1305-6	2-0)				
Acute					
Oral					
LD50	Rat	7340 mg/kg			
Skin corrosion/irritation	Causes skin irritation.				
Serious eye damage/eye irritation	Causes serious eye damage.				
Respiratory sensitization	No data available.				
Skin sensitization	May cause an allergic skin reaction.	May cause an allergic skin reaction.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.				
Carcinogenicity	Not classified.				
Reproductive toxicity	This product is not expected to cause	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	May cause respiratory irritation.				
Specific target organ toxicity - repeated exposure	Not classified.				
Aspiration hazard	Due to the physical form of the produ-	ct it is not an aspiration hazard.			
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.				
Further information	No other specific acute or chronic hea	Ith impact noted.			
12. Ecological information	n				
Ecotoxicity	Not expected to be harmful to aquatic	organisms.			
Components	Species	Test Results			

Zambezi barbel (Clarias gariepinus)

LATICRETE 1600 Unsanded Grout

Aquatic

Fish

LC50

33.8844 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available for this product.
Mobility in soil	The product is not mobile in soil.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as a hazardous material by DOT.

# ΙΑΤΑ

Not regulated as a dangerous good.

# IMDG

Not regulated as a dangerous good.

Transport in bulk according to This substance/mixture is not intended to be transported in bulk. Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
  - Not listed.

## CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Food and Drug

US state regulations

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section Not regulated.	112 Hazardous Air Pollutants (HAPs) List
Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.

Administration (FDA) California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Not regulated.

#### US. Massachusetts RTK - Substance List

Calcium hydroxide (CAS 1305-62-0) Portland Cement (CAS 65997-15-1)

US. New Jersey Worker and Community Right-to-Know Act Not regulated.

#### US. Pennsylvania RTK - Hazardous Substances

Calcium hydroxide (CAS 1305-62-0) Portland Cement (CAS 65997-15-1)

**US. Rhode Island RTK** 

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

05-December-2013 Issue date **Revision date** Version # 01 **NFPA Ratings** ()References HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS) Disclaimer The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.

Revd	MAY 200	2						191-100	>
		1 – Prod	luct lo	lentif	icatior	n and	Uses		
PRODUCT IDENTIFIER	Studio and Brush	cleaner			والمتحديد والمستحد والمحت و	and the second	CATION NUM	BER (PIN)	
PRODUCT USE Turpentine substitute for cleaning artist brushe									
MANUFACTURER'S NA		facturing Inc.			Sax Arts &				
CITY St.Lambert	PROVINCE Qu	ébec	CITY Ne		2405 S. Cal		E Wisconsin		
POSTAL CODE EMERGENCY TELEPHONE NO		ZIP COD				RGENCY TELI	EPHONE NO		
J4P 1R8 (450) 672-9931		53151				(262) 784-6880			
	Se	ction 2 –	Ingre	dient	Inform	natio	n		
HAZARDOUS INGREDIENTS % by wt.				NGREDIENT SPECIES AND ROUTE)		LC <sub>50</sub> OF INGREDIE (SPECIFY SPECIE			
Nonlyphenoxy Poly(ethyle	eneoxy)ethanol	25	68412	2-54-4 3000 gm/kg RAT/		T/ORAL	Not available		
No toxic chemical(s) subj	iect to the reportin	g requirements of s	section 313	of Title III a	and of 40 CFF	R 372 are p	resent.	-	
CEPA STATUS: All of the			in the state of the second	in the state of th	in a second s				
U.S.A. TSCA STATUS: A	Il functional comp					عادي بتجرف والانتخاص فالتجاوي المحاد			
		Sectio	on 3 –	Phys	ical Da	ata			
PHYSICAL STATE Liqui	d	ODOUR AND AP						HRESHOLD (PPM)	
VAPOUR PRESSURE (mm Hg) No data		VAPOUR DENSI (AIR=1) N/A		APORATI	ON RATE te = 1) N/A		G POINT [C] (200 °F)	FREEZING POINT -4 °C (24.8 °F)	[C]
PH N/A		SPECIFIC GRAV			ER/OIL DIST		1200 F)	-4 C (24.0 F)	
		1.05							
	Sec	ction 4 – I	Fire a	nd Ex	cplosic	on Da	ta		
YES D NO X IF YES MEANS OF EXTINCTION	UNDER WHICH	CONDITIONS?							
FLASHPOINT [C] AND M	IETHOD U	PPER FLAMMABL ⁄A	E LIMIT (%	BY VOLU	ME) L	LOWER FLAMMABLE LIMIT (% BY VOLUME) /		) N/A	
AUTOIGNITION TEMPER	ATURE [C] H	AZARDOUS COMI /A	BUSTION P	RODUCTS	5				
UNUSUAL FIRE AND EXPLOSION HAZARDS No special requirements. Container may burn and leak in heat of									
No special requirements.	Container may b	urn and leak in hea	t of fire.						
		Section	5 - R	eacti	vity Da	ata			
CHEMICAL STABILITY		occuon		Caoti	VILY DE	ala			
YES X NO I IF NO U	NDER								
WHICH INCOMPATIBILITY WITH	CONDITIONS?								
YES IN NO X IF SO,	1011EK 30631	ANCES							
WHICH			hugi manina di manan	in the second second		والمحافظة والمحافظ والمحافظ والمحافظ	a su		
REACTIVITY, AND UNDE None reasonably foresee		TIONS							
HAZARDOUS POLYMER		occur	······································			· · · ·		······································	
HAZARDOUS DECOMPO		CTS							
Oxides of carbon (CO, CO			-	-					
	Sec	tion 6 – 1	OXICO	blogi	cal Pro	perti	es		
ROUTE OF ENTRY	CONTACT x	SKIN ABSORP		EYE	ONTACT x	INHA		INGESTION x	
EFFECTS OF ACUTE EX	POSURE TO PRO	ODUCT							
May cause mild eye irritatio EFFECTS OF CHRONIC	n. Prolonged or rep	peated skin contact m	ay cause mil	d skin irrita	tion. Ingestion	n may cause	nausea and abd	ominal discomfort.	
Prolonged or repeated skin	contact may cause s	kin irritation.							
MEDICAL CONDITIONS	GENERALLY RE	ECOGNIZED AS B	EING AGG	RAVATED	BY EXPOS	SURE Perso	ons with pre-ex	isting skin disorders n	nay be
more susceptible to irritating		ANCY OF PRODU	ICT N/A	SENSITI N/A	ZATION TO	PRODUCT	CARCI	NOGENICITY N/A	
TERATOGENICITY N/A	REPF	RODUCTIVE TOXI	CITY N/A		ENICITY N/A		SYNER	GISTIC PRODUCTS	N/A

Sec	ction 7 – Preventive Measu	ures		
PERSONAL PROTECTIVE EQUIPMENT				
PROTECTIVE GLOVES (SPECIFY)	RESPIRATORY PROTECTION (SPECIFY)	EYE PROTECTION(SPECIFY)		
Recommended for prolonged exposure to skin,	No special requirements under normal conditions.	Recommended to protect against splashes.		
otherwise not needed.		necommented to protect ugunist splusnes.		
SPECIAL FOOTWEAR(SPECIFY)	OTHER PROTECTIVECLOTHING (SPECIFY)			
Not needed	None needed			
ENGINEERING CONTROLS (SPECIFY, EG VI				
General room ventilation adequate.	ENTILATION, ENGLOSED PROCESS)			
STEPS TO BE TAKEN IN CASE MATERIAL IS				
	ed to avoid falls. May be toxic to aquatic life. Do not	lat anillad or looking material anter watercours		
	r inert material. Sweep or scrape up and containerize.			
WASTE DISPOSAL METHOD	i men material. Sweep of scrape up and containenze.	Rinse anecieu area inorougniy with water.		
	and provincial and state regulations and least or munic	inclarding a seconding diseased of sec		
nazardous materials.	eral, provincial and state regulations and local or munic	apar ordinances regarding disposal of non-		
PRECAUTIONS TO BE TAKEN IN HANDLING				
		are use and/or consume feeds have a		
tobacco products or cosmotics in cross where t	ct with skin. Wash thoroughly after handling. Do not st his material is stored. Wash hands and face carefully b	ore, use and/or consume toods, beverages,		
cosmetics or using the tollet. Avoid breathing v product.	apours or mists. In cold weather, this product may stra	uny and meeze. This does not damage the		
STORAGE REQUIREMENTS				
	ion Avoid outromon of boot and cold			
Store in a cool, dry place with adequate ventilat	on. Avoid extremes of neat and cold.	in the later of the second state of the second s		
SPECIAL SHIPPING INFORMATION				
	en de la companya de			
WHIS CLASSIFICATION - Non-regulated				
All incredients of this product are listed or are a	cluded from listing on the U.S. Toxic Substance Contr	ol Act (TSCA) Chemical Substance Inventory		
	cilded norr isting on the 0.5. Toxic Substance Contr	or Add (100A) Onennoar Substance inventory.		
All ingredients in this product comply with the N	ew Substances Notification requirements under the Ca	nadian Environmental Act (CEPA).		
This product is not subject to the reporting re	quirements under California's Proposition 65. These	e ingredients from Section 2 are subject to th		
following reporting requirements:				
PA - The Pennsylvania Hazardous Substance L	ist			
NJ - The New Jersey Right to Know Hazardous				
MA - The Massachusetts Hazardous Substance				
C.	ation & Eirat Aid Magau	200		
36	ection 8 – First Aid Measu	les		
SPECIFIC MEASURES:	•			
nhalation: Remove to fresh air. If breathing is	affected, get medical attention.			
Eye Contact: Flush immediately with large amo	unts of water for at least 15 minutes. If irritation develo	ops, get medical attention.		
	ap and water. If irritation develops, get medical attention	on		
Skin Contact: Wash contaminated area with so				
Ingestion: Immediately drink 1 or 2 glasses of	water or milk to dilute. If discomfort persists, seek med	lical attention. Treat symptomatically. Do not		
		lical attention. Treat symptomatically. Do not		
ngestion: Immediately drink 1 or 2 glasses of		lical attention. Treat symptomatically. Do not		
ngestion: Immediately drink 1 or 2 glasses of administer anything by mouth to an unconsciou	s person.			
ngestion: Immediately drink 1 or 2 glasses of administer anything by mouth to an unconsciou Sectio	on 9 – Preparation Date of	MSDS		
Ingestion: Immediately drink 1 or 2 glasses of administer anything by mouth to an unconsciou.	on 9 – Preparation Date of			

Demco Manufacturing Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty of merchantability or fitness for use. Demco Manufacturing Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

Gargent Artin. Revel Feb 2004

# Material Safety Data Sheet

SheetLaborMay be used to comply withOccupational Safety and Health<br/>AdministrationOSHA's Hazard Communication Standard,<br/>29 CFR 1910.1200. Standard must be<br/>consulted for specific requirements.(Non-Mandatory Form)<br/>Form Approved<br/>OMB No. 1218-0072

 IDENTITY (As Used on Label and List)
 Note: Blank spaces are not permitted. If any litem is not applicable, or no Information is available, the space must be marked to indicate that.

 Section I
 Section I

100 Easl Dlamond Ave. Hazleton, Pennsylvania 18201-5241 800-424-3596 570-454-3596 • Fax: 570-459-1752

> 404581 404583 H04583 H04585 H04585 H04585 H04587 H04588 H04589 H04591 H04591

Manufacturer's Name	Emergency Telephon	Number
Sargent Art, Inc.	570-454-3596	
Address (Number, Street, City, State, and ZIP Code)	Telephone Number fo 570-454-3596	r Information
100 E Diamond Avenue	Date Prepared	7-26-2002
Hazleton PA 18201	Signature of Preparer (	optional)

#### Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific

Chemical Identity; Common Name(s))

ALL CP/AP PRODUCTS ARE CERTIFIED BY A NATIONAL RECOGNIZED AUTHOR-

ITY ON TOXICOLOGY ASSOCIATED WITH A LEADING UNIVERSITY TO CONTAIN

NO KNOWN TOXIC MATERIALS IN SUFFI CIENT QUANTITIES TO BE

INJURIOUS TO THE HUMAN BODY EVEN IF INGESTED.

# CONFORMS TO ASTM-D 4236.

Section III - Physical/Chemical Characteristics

Boiling Point NOT APPLICABLE	Specific Gravity (H <sub>2</sub> O = 1) N/A
Vapor Pressure (mm Hg.) N/A	
	Melting Point N/A
Vapor Density (AIR = 1) N/A	Evaporation Rate N/A
	(Butyl Acetate = 1)
Solubility In Water	Water Soluable - Water Dispersible
Appearance and Odor	Various Colors - Essentially Odorless
Section IV - Fire and Explosion Hazard Da	Ita
Flash Point (Method Used) N/A	Flammable Limits LEL UEL
	NONE NONE NONE
Extinguishing Media	CARBON DIOXIDE, WATER, FOAM
Special Fire Fighting Procedures	SELF-CONTAINED BREATHING
	APPARATUS
Unusual Fire and Explosion Hazards	NONE

**U.S. Department of** 



100 East Diamond Ave. Hazleton, Pennsylvania 18201-5241 800-424-3596 570-454-3596 • Fax: 570-459-1752

Section V - Reactivity Data	
Stability	Unstable Conditions to Avoid
	Stable X None Known
Incompatibility (Materials to Avoid)	Strong oxidizers and acids
Hazardous Decomposition or Byproducts	
Hazardous May Occur	Conditions to Avoid
Polymerization Will Not Occur X	None Known
Section VI - Health Hazard Data	
Route(s) of Entry: Inhalation? Possible	Skin? N/A Ingestion? Possible
Health Hazards (Acute and Chronic)	
This product is certified to contain no	materials in sufficient quantities to be
toxic or injurious to humans or to cause	acute or chronic health problems.
Carcinogenicity: NTP? None	IARC Monographs? N/A OSHA
	Regulated? No
Signs and Symptoms of Exposure	None Known
Medical Conditions	
Generally Aggravated by Exposure	None Known
Emergency and First Aid Procedures	If ingested, do not induce vomiting, call physician.

# Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Sweep into container and dispose of according to local regulations.
Waste Disposal Method	In accordance with local regulations.
Precautions to Be taken in Handling and Storing	Keep in cool, dry area.
Other Precautions	None Known

## Section Vill - Control Measures

1

Respiratory Proctection (Specify Type)		Not Required.			
Ventilation	Local Exhaust	Not Required	Special	None	
Mechanical (Gen	eral)	Not Required	Other	None	
Protective Glove	s	Not Required	Eye Protection	Not Required	
Other Protective	Clothing or Equipment	Not Required			
Work/Hygienic P	ractices	Clean, safe work practices			

Page 2

# Revel Jan 2006 **Material Safety Data Sheet**

_CHROMA INC	
Manufacturer	
205 BUCKY DRIVE	
Address	
LITITZ PA 17543	
	· · · · · · · · · · · · · · · · · · ·

(717)626-8866

1.5

<u>م</u>ر پ

Phone Number (For Information) (717)626-8866 Telex\*

Emergency Phone Number

SAX MATTE MEDIUM

Identity (Trade Name As Used On Label)

MSDS Number\*

CAS Number\*

08/05

Date Prepared

Prepared By\*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

# SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS — Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH	OTHER LIMITS RECOMMENDED
PRODUCT IS A WATER-BASED, NON-TOXIC, NON-HAZARDOUS				
ACRYLIC MEDIUM IN LIQUID FORM. CERTIFIED NON-TOXIC BY				
(ART & CREATIVE MATERIALS INSTITUTE).				
1. ACRYLIC EMULSION				· · · · · · · · · · · · · · · · · · ·
2. WATER				
3. PROPYLENE GLYCOL				
4. COALESCENT (TEXANOL)				
5. PRESERVATIVE - NON HAZARDOUS AT LEVEL USED				
	·····		· · · · · · · · · · · · · · · · · · ·	
Non-Hazardous Ingredients				
TOTAL	100			이가 이 것을 수 있습니다. 이가 이 이것을 수 있는 것을 수 있는 것 같이 하는 것을 수 있는 것을

# SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling	Specific Gravity
Point 215-275°F	( $H_2O = 1$ ) NOT KNOWN
Vapor Pressure	Melting
(mm Hg and Temperature) NOT KNOWN	Point NOT KNOWN
Vapor Density (Air = 1) LIGHTER THAN AIR	Evaporation Rate
Solubility	Water
in Water TOTALLY SOLUBLE	Reactive NOT KNOWN

Appearance and Odor

MEDIUM VISCOSITY, TRANSLUCENT LIQUID, NO ODOR

# SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used N/A	Auto-Ignition Temperature N/A	Flammability Limits in Air % by Volume N/A	
Extinguisher N/A Media			
Special Fire Fighting Procedures N/A			······································

Unusual Fire and N/A Explosion Hazards

\*Optional

	onditions o Avoid N/A			<u> </u>		
Unstable Incompatability						
(Materials to Avoid) Hazardous	NONE					·····
Decomposition Proc	·				· · · · · · · · · · · · · · · · · · ·	
HAZARDOUS POLY	MERIZATION Conditions To Avoid	N/A				
SECTION 5	- HEALTH HAZARD	DATA				
PRIMARY ROUTES OF ENTRY	<ul> <li>Inhalation</li> <li>Skin Absorption</li> </ul>	□ Ingestion ⊠ Not Hazardous	CARCINOGEN LISTED IN		TP RC Monograph	OSHA X Not Listed
HEALTH HAZARDS	Acute NONE		_ <u></u>			
	Chronic NONE					
Signs and Symptom of Exposure	s NONE				····	
Medical Conditions Generally Aggravated	by Exposure NONE					
EMERGENCY FIRST	AID PROCEDURES - Seek	nedical assistance for fu	rther treatment, obs	servation and	support if neces	ssary.
Eye Contact	DNE					······································
	· · · · · · · · · · · · · · · · · · ·			·		
Skin Contact	DNE		·			···
						· · ·
Inhalation						
NC						
NC	DNE			·······		······································
NC					· · · · · · · · · · · · · · · · · · ·	
NC	DNE					
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Ingestion NC		ROTECTIVE MEA	SURES			
Ingestion NC	ONE CONTROL AND P			- USE		
Ingestion NC SECTION 6		NDER NORMAL C			OUIRED	
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves /ENTILATION	ONE CONTROL AND P		ONDITIONS OI	NOT RE	QUIRED	N/A
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves	ONE CONTROL AND PI	NDER NORMAL CO	ONDITIONS OF			N/A
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves VENTILATION TO BE USED	ONE CONTROL AND PI NONE NEEDED U NOT REQUIRED Local Exhaust N/ Other (specify) N/	NDER NORMAL CO	ONDITIONS OF	NOT RE		N/A
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves VENTILATION TO BE USED Dther Protective Clothing and Equipn tygienic Work	ONE CONTROL AND Pl NONE NEEDED U NOT REQUIRED Local Exhaust N/ Other (specify) N/	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general)	NOT RE		N/A
Ingestion NC SECTION 6 Respiratory Protection (Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Equipm Hygienic Work Practices AS	ONE CONTROL AND PI NONE NEEDED U NOT REQUIRED Local Exhaust N/ Other (specify) N/ nent NOT REQUIRE S WITH ANY WATER-I	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general)	NOT RE	Special	
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves VENTILATION TO BE USED Dther Protective Clothing and Equipn Hygienic Work Practices AS SECTION 7	ONE CONTROL AND Pl NONE NEEDED U NOT REQUIRED CLocal Exhaust N/ Other (specify) N/ NOT REQUIRE SWITH ANY WATER-E PRECAUTIONS FC	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general)	NOT RE N/A	Special	URES
Ingestion NC SECTION 6 Respiratory Protection (Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Equipm Hygienic Work Practices AS	ONE         CONTROL AND Planning         NONE NEEDED U         NOT REQUIRED         Local Exhaust         Dither (specify)         NOT REQUIRE         Other (specify)         NOT REQUIRE         SWITH ANY WATER-I         PRECAUTIONS FC         Material         DIKE AND CO	NDER NORMAL CO A D BASED PRODUCT OR SAFE HANDL	ONDITIONS OF Eye Protection echanical (general) ING AND US	NOT RE N/A E / LEA	SAND, SAWD	URES
Ingestion NC SECTION 6 Respiratory Protectic Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Equipn tygienic Work Practices AS SECTION 7 Steps to be Taken If s Spilled Or Release	ONE         CONTROL AND Planning         NONE NEEDED U         NOT REQUIRED         Local Exhaust         Dither (specify)         NOT REQUIRE         Other (specify)         NOT REQUIRE         SWITH ANY WATER-I         PRECAUTIONS FC         Material         DIKE AND CO	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general) ING AND US	NOT RE N/A E / LEA	SAND, SAWD	URES
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Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Equipm Hygienic Work Practices AS SECTION 7 - Steps to be Taken If s Spilled Or Release	ONE CONTROL AND PI NONE NEEDED U NOT REQUIRED Local Exhaust N/ Other (specify) N/ NOT REQUIRE WITH ANY WATER-I PRECAUTIONS FC Material DIKE AND CO TRANSFER C	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general) ING AND US	NOT RE N/A E / LEA	SAND, SAWD	URES
Ingestion NC SECTION 6 Respiratory Protectic (Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Equipm Hygienic Work Practices AS SECTION 7 - Steps to be Taken If s Spilled Or Release	CONTROL AND Pl  NONE NEEDED U NOT REQUIRED Conter (specify) N/ Conter (specify) N/ NOT REQUIRE SWITH ANY WATER-B PRECAUTIONS FC Material DIKE AND CC TRANSFER C NORMAL DIS ken	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general) ING AND US H INERT MATE NTAINERS FO	NOT RE N/A E / LEA	SAND, SAWD	URES
NC         Ingestion       NC         SECTION 6       Section 6         Respiratory Protectic (Specify Type)       Protectic (Specify Type)         Protective Gloves       Section 7         VENTILATION FO BE USED       AS         Dther Protective Clothing and Equipn tygienic Work Practices       AS         SECTION 7       Steps to be Taken If s Spilled Or Release         Vaste Disposal Methods       Precautions to be Ta n Handling and Store	CONTROL AND Pl  NONE NEEDED U NOT REQUIRED  Local Exhaust N/ Other (specify) N/ NOT REQUIRE SWITH ANY WATER-I OTREQUIRE SWITH ANY WATER-I OTRECAUTIONS FC Material DIKE AND CO TRANSFER C NORMAL DIS keen age NO PARTICU d/or Special Hazards	NDER NORMAL CO	ONDITIONS OF Eye Protection echanical (general) ING AND US H INERT MATE NTAINERS FO	NOT RE N/A E / LEA	SAND, SAWD	URES

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Reorder No. 2217-2

SAFETY DATA SHEET (91/155/EEC - 200 Version: N°2 (12/10/2005) Name: Sax True Flow Acrylics M-vis : all co	1/36/EC - 130 11014-1)	Co	Date: 14/10/2005 Page 1/3 Revision: N°1 (27/09/2005) mpany: School Specialty Inc.	
	Revel Oct 2005 SAFETY DATA SHEET	439232, 439247, 439262, 439277,	235, 238, 241 250, 253, 256 265, 268, 271 280, 283, 286 , 295, 298, 30	, 274
1 - IDENTIFICATION OF THE SUBST Identification of the substance or prep Name: Sax True Flow Acrylics M-vis Product code: STFALM.	aration:	HE COMPANY/U	NDERTAKING	
Company/undertaking identification: Registered company name: School Spe Address: W6316 Design Drive WI 549 Telephone: 888-388-3224. Fax:. T	42.Greenville			
Emergency telephone: 800-222-1222. Association/Organisation: .				

Paint & Varnish

Use of the substance/preparation:

#### 2 - COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

#### Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

#### Other components:

Conforms to ASTM D-4236

#### **3 - IDENTIFICATION OF HAZARDS**

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site This preparation is not classed as hazardous to health by directive 1999/45/EC.

#### Other data:

Packaging < 125 ml.

#### 4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.

#### **5 - FIRE-FIGHTING MEASURES**

Not relevant.

#### **6 - ACCIDENTAL RELEASE MEASURES**

#### Personal precautions:

Consult the safety measures listed under headings 7 and 8.

#### SAFETY DATA SHEET (91/155/EEC - 2001/58/EC - ISO 11014-1) Version: N°2 (12/10/2005) Name: Sax True Flow Acrylics M-vis : all colours - STFALM

Date: 14/10/2005 Page 2/3 Revision: N°1 (27/09/2005) Company: School Specialty Inc.

#### **Environmental precautions:**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

#### Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

#### 7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

#### Fire prevention:

Prevent access by unauthorised personnel.

#### 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

#### **Technical measures:**

Personnel shall wear regularly laundered overalls.

#### 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Physical state:	viscous liquid
Important health, safety and environmental information:	
pH of the substance or preparation:	slightly basic.
When a pH measure is possible, it has a value of:	8.50 .
Boiling point/boiling range:	not relevant.
Flash point interval:	not relevant.
vapour pressure:	not specified.
Density:	>1
water solubility:	Dilutable.
Other information:	
melting point/melting range:	not relevant.
Self-ignition temperature:	not relevant.
Decomposition point/decomposition range :	not relevant.

#### **10 - STABILITY AND REACTIVITY**

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

#### 11 - TOXICOLOGICAL INFORMATION

The preparation contains no substance classed as hazardous per directive 67/548/EEC.

#### 12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

#### Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

#### SAFETY DATA SHEET (91/155/EEC - 2001/58/EC - ISO 11014-1) Version: N°2 (12/10/2005) Name: Sax True Flow Acrylics M-vis : all colours - STFALM

Date: 14/10/2005 Page 3/3 Revision: N°1 (27/09/2005) Company: School Specialty Inc.

#### **13 - DISPOSAL CONSIDERATIONS**

Do not pour into drains or waterways.

#### Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 75/442/EEC, Directive 91/689/EEC on hazardous waste) : 08 01 11 \* waste paint and varnish containing organic solvents or other dangerous substances

#### **14 - TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

#### **15 - STATUTORY INFORMATION**

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This preparation is not classed as hazardous to health by directive 1999/45/EC.

This product is not classed as flammable.

Packaging < 125 ml.

Particular provisions:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

#### **16 - OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 2:

REVO DEL 2004

MAYCO MSDS SHEET #3 **Active Products** 

406312

# SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

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Prepared: Supersedes: Manufacturer:	September 22, 2003 All previous MAYCO COLORS division 4077 Weaver Court South Hilliard, Ohio 43026	of Coloramics, LLC
Distributor:	EC	Local Phone Local Phone Local Phone
CONTROL CENTE Prepared by: MSDS		T YOUR LOCAL POISON
_	S) AND UNDERGLAZES AN	•
Astro Gem Glazes	AS-510, 512, 513, 515, 516,	518 519 520 521 523 524 527
One Stroke Colors	531, 532, 534, 535, 539, 541 OS-1, 2, 3, 4, 6, 8, 9, 17, 18, 45, 46, 47, 48, 52, 54, 58, 59	., 545, 547, 548, 551 21, 26, 29, 32, 34, 36, 38, 41, 43, 44, , 60, 61, 62, 63, 65, 66, 104, 105,
Underglazes	30, 31, 32, 33,34, 35, 37, 38, 53, 56, 57, 58, 67, 68, 69, 70 84, 85, 86, 87, 89, 90, 91, 92	15, 17, 18, 19, 21, 22, 24, 25, 26, 27, 39, 41, 42, 43, 45, 46, 50, 51, 52, 71, 72, 73, 75, 78, 80, 81, 82, 83, 93, 94, 95, 97, 98,100, 103, 104,
Pottery Cascades Miscellaneous	105, 108, 109, 110, 111, 116 136,141, 142, 144, 145, 146, 194, 195, 196, 198, 201, 202 PC-501 through PC-505 s PS-551 through PS-555 PC-601 through PC-604 AC-306, AC-308 *S-2101-2168 and S2170 S-2560, 2561, 2562, 2564, 24 2580, 2581, 2585	565, 2566, 2574, 2577, 2578, 2579,
Series 2000 Mattes	S-2587, 2588, 2589, 2590, 24 * <u>Excluding</u> : S-2104, 2105, 21 *S-2200, 2201, 2208, 2209, 22 2230, 2231, 208, S-2232, 22 *E-12: 500, 2201, 208, S-2232, 22	22, 2130, 2168, and 2586 218, 2223, 2226, 2227, 2228, 2229, 33, 2234, 2235, 2236, 2237, 2239
Stroke & Coat Serie	s · All Stroke and Coat (SC's)	except SC-23, 58, 59, 62, 24, 20,4,

67, 68, 50, SP-204, SD-304, SD-323 all SP series except SP-204 S-2167, 2169, 2401, 2402, 2408, 2421, 2422, 2423, 2424, 2425, 2427 S-2701 through S-2718 & S-2719, S-2722, S-2723 SC-210 EL-101 through EL-118 Specstone Glazes

Crystalites Roll a Coat Elements Chunky Elements Classic Crackles Clear Glaze Stoneware Like Glaze - SLG-02, 06, 17 EL-201 through EL-209 CC-500 through CC-507 S-2000, S-2101, SC-209

# SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

#### INGREDIENTS CAS ACGIH OSHA TLV PEL

				• • • • •
Alumina Silicate	1332-58-7	· NA	NA	
Bentonite / Clay	1302-78-9	NA	NA	
Water	7732-18-5	NA	NA	

#### SECTION 3: HAZARDS IDENTIFICATION

Crystalline Silica may be present. (OSHA PEL .1mg/m3)

Route(s) of Entry: Ingestion, absorption through the skin is negligible.

Inhalation only if sprayed.

Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

#### SECTION 4: FIRST AID MEASURES

If Inhaled: Remove from exposure

If on skin: Wash skin with soap and water

If in eyes: Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a physician.

If swallowed: Dilute by drinking water

#### SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA Flash Point (method used): N/A LEL: N/A UEL: N/A Flammable Limits: N/A Extinguishing Media: None required, not combustible. Special Fire Fighting Procedures: None Unusual Fire and Explosion Hazards: None

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum, or wash into a receptacle for disposal.

Waste Disposal Method: Follow Federal or State and Local regulations for disposal. Testing of the waste may be required to determine status under the hazardous waste regulations.

#### SECTION 7: HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING AND USE

Engineer Control - None

Work practices- Store away from feed and food. Do not smoke, eat or drink while handling.

Procedure / equipment- None

Procedure for leaks or spills: Uncontaminated material may be recovered and reused. If contaminated, scoop, vacuum, or wash into a receptacle for disposal. Waste Disposal Method: Follow Federal or State and Local regulations for disposal.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Use of the following protective measures are strongly recommended if the glazes are to be applied by spraying.

The Work/Hygienic Practices apply regardless of the method of application. Respiratory Protection (Specify Type): Use a NIOSH approved dust and/or fume respirator as necessary.

Ventilation: Local Exhaust - for spraying

Protective Gloves: N/A

Eye Protection: for spraying

Other Protective Clothing or Equipment: Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons. Work/Hygienic Practices: Food, beverages, and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Various colors Odor and odor threshold: Negligible PH: Not available **Boiling Point: None** Vapor Pressure: NA Vapor Density: NA Melting Point: above 1000oF Specific Gravity (H2O=1): 1.4 to 1.6 Flammable Limits: None Explosive limits: None Partition Coefficient: None **Oxidizing Properties:** None Solubility in Water: Negligible Percent Volatile by Volume: None **Evaporation Rate:** None Freezing point: NA Flash Point: None Auto ignition temperature: None

#### SECTION 10: STABILITY AND REACTIVITY DATA

Incompatibility (material to avoid): Avoid fumes from firing by venting kiln area. Stability: Stable (conditions to avoid: N/A)

Hazardous Decomposition or Byproducts: Not available

Hazardous Polymerization: Will not occur

Conditions to avoid: Fumes from firing in kiln. Inhalation of spray.

#### SECTION 11: TOXICOLOGICAL INFORMATION

Hazard to Human: None during normal use. Harmful if inhaled or swallowed. DO NOT SPRAY APPLY

If glaze is spray applied the following warnings apply: Warning: Contains Quartz.

1. Possible cancer agent based on tests with laboratory animals.

2. Exposure may cause lung damage.

3. Keep out of reach of children; avoid inhalation.

This product contains chemicals known to the State of California to cause cancer.

Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs. Additional information: Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit.

#### SECTION 12: ECOLOGICAL INFORMATION

Mobility: Not Available Persistence/degradability: Not Available Bioaccumulation: Not Available Ecotoxicity: Not Available

For more information in AUSTRALIA see web site www.nohsc.gov.au

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Follow your Federal or State and Local regulations for disposal. Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. Testing of the waste may be required to determine status under the hazardous waste regulations.

Waste from residue/unused product: Can be landfilled according to local regulations. Contaminated packing: Can be landfilled according to local regulations.

#### SECTION 14 TRANSPORTATION INFORMATION

UN Number: None for this product.

#### SECTION 15 REGULATORY INFORMATION

Silica is listed by California, Proposition 65 Silica is listed on the IARC, OSHA or NTp carcinogen list.

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All ingredients are on U.S. TSCA / EC / AICS / DSL Inventory. See local requirements.

# EU Status: Symbol- None WHMIS Status: Not Controlled

# SECTION 16 ADDITIONAL INFORMATION

This information is furnished with out warranty, representation, inducement or license of any

Kind, except that it is accurate to the best of knowledge of COLORAMICS, LLC or obtained

from sources believed to be accurate. COLORAMICS, LLC does not assume any legal responsibility for use or reliance on same. Customers are encouraged to conduct their own

tests before using any product. Read the product label.

For more information in AUSTRALIA see web site www.nohsc.gov.au

30455-1100 -1200 -1300 -1400 -4770 -5140 -5210 -6090 -6170 -7010 -7510 -8340

# **MSDS SHEET #3 Non-Toxic Fired Ceramic Products**

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#### SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Prepared: September 21, 2006 Supersedes: All previous Manufacturer: Mayco Colors Division of Coloramics, LLC 4077 Weaver Court South Hilliard, Ohio 43026 United States of America

Distributor Contacts:

.

USA	Local Phone
EC	Local Phone
Australia	Local Phone

IN CASE OF EMERGENCY PLEASE CONTACT YOUR LOCAL POISON CONTROL CENTER Prepared by: MSDS department Information Telephone Number: 614-876-1171

#### Ceramic Glaze and Underglaze and Miscellaneous.

Astro Gems	AS-510, AS-512, AS-513, AS-515, AS-516, AS-518, AS-519, AS-523, AS-524, AS-527, AS-531, AS-532, AS-534, AS-535, AS-539, AS-545, AS-547, AS-548
Chalkboard Glazes	SG-101, SG-102
Classic Crackle	CC-101, CC-102, CC-103, CC-104, CC-105, CC-106, CC-107, CC-108
Cobblestone Glazes	SG-201, SG-202
Coloramics Fired AccessMiscs	AC-306, AC-308
Crystalites	S-2701, S-2702, S-2703, S-2704, S-2705, S-2706, S-2707, S-2708, S-2709, S-2710, S-2711, S-2712, S-2713, S-2714, S-2715, S-2716, S-2717, S-2718, S-2719, S-2722, S-2723, S-2724, S-2725, S-2726, S-2727, S-2731, S-2732
Element Chunkies	EL-201, EL-203, EL-204, EL-206, EL-209, EL-211, EL-212
Elements	EL-101, EL-102, EL-104, EL-107, EL-109, EL-110, EL-111, EL-112, EL-116, EL-118, EL-121, EL-124
One Stroke Translucent Underglazes	OS-1, OS-105, OS-136, OS-142, OS-147, OS-17, OS-18, OS-2, OS-21, OS-26, OS-29, OS-3, OS-32, OS-34, OS-36, OS-38, OS-4, OS-41, OS-47, OS-48, OS-58, OS-59, OS-6, OS-60, OS-61, OS-62, OS-63, OS-8, OS-9
Pottery Coat	PC-501, PC-502, PC-503, PC-504, PC-505
Pottery Coat Cascades	PC-601, PC-602, PC-603, PC-604
- ·	

Series 2000 Glazes	S-2000, S-2101, S-2102, S-2103, S-2107, S-2109, S-2110, S-2111, S-2112, S-2113, S-2114, S-2115, S-2116, S-2117, S-2118, S-2119, S-2120, S-2121, S-2123, S-2126, S-2127, S-2128, S-2132, S-2133, S-2134, S-2136, S-2137, S-2138, S-2139, S-2140, S-2141, S-2142, S-2143, S-2144, S-2145, S-2146, S-2147, S-2148, S-2149, S-2150, S-2151, S-2152, S-2153, S-2154, S-2155, S-2159, S-2160, S-2161, S-2162, S-2163, S-2164, S-2165, S-2166, S-2167, S-2169, S-2171, S-2200, S-2201, S-2208, S-2209, S-2218, S-2220, S-2221, S-2234, S-2236, S-2237, S-2238, S-2239, S-2230, S-2231, S-2232, S-2233, S-2234, S-2236, S-2237, S-2238, S-2239, S-2240, S-2242, S-2401, S-2402, S-2408, S-2421, S-2422, S-2423, S-2424, S-2425, S-2427, S-2560, S-2561, S-2562, S-2564, S-2565, S-2566, S-2574, S-2577, S-2578, S-2579, S-2580, S-2581, S-2582, S-2585, S-2587, S-2588, S-2589, S-2590, S-2591, S-2592, S-2593
Specialty Glazes	SG-301, SG-302
Speckled Stroke & Coat®	SP-201, SP-202, SP-203, SP-205, SP-206, SP-210, SP-211, SP-212, SP-213, SP-215, SP-216, SP-223, SP-226, SP-227, SP-231, SP-241, SP-245, SP-253, SP-254, SP-260, SP-270
Stoneware Glazes	SLG-17, SLG-2, SLG-6
Stroke & Coat <sup>®</sup>	SC-1, SC-10, SC-11, SC-12, SC-13, SC-14, SC-15, SC-16, SC-17, SC-18, SC-2, SC-22, SC-25, SC-26, SC-27, SC-28, SC-29, SC-3, SC-30, SC-31, SC-32, SC-33, SC-34, SC-35, SC-36, SC-37, SC-39, SC-40, SC-41, SC-42, SC-43, SC-45, SC-46, SC-48, SC-5, SC-51, SC-52, SC-53, SC-54, SC-55, SC-58, SC-6, SC-60, SC-63, SC-65, SC-7, SC-70, SC-71, SC-72, SC-76, SC-77, SC-78, SC-79, SC-8, SC-9
Underglazes	UG-1, UG-10, UG-100, UG-104, UG-11, UG-12, UG-125, UG-130, UG-131, UG-145, UG-146, UG-15, UG-18, UG-181, UG-189, UG-19, UG-194, UG-198, UG-2, UG-201, UG-21, UG-22, UG-24, UG-25, UG-26, UG-27, UG-3, UG-30, UG-31, UG-32, UG-33, UG-34, UG-35, UG-37, UG-38, UG-39, UG-41, UG-42, UG-43, UG-45, UG-46, UG-50, UG-51, UG-52, UG-53, UG-57, UG-58, UG-67, UG-68, UG-69, UG-70, UG-71, UG-72, UG-73, UG-80, UG-81, UG-82, UG-83, UG-87, UG-89, UG-90, UG-91, UG-92, UG-93, UG-94, UG-95, UG-97

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	ACGIH TLV	OSHA PEL
Silica	14808-60-7	0.10mg/M3	0.10mg/M3
Alumina Silicate	1332-58-7	N/A	N/A
Bentonite/Clay	1302-78-9	N/A	N/A
Water	7732-18-5	N/A	N/A

#### SECTION 3: HAZARDS IDENTIFICATION

Crystalline Silica may be present . (OSHA PEL .1mg/m3) Route(s) of Entry: Igestion, absorption through the skin is negligible. Inhalation only if sprayed. Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

#### SECTION 4: FIRST AID MEASURES

If Inhaled: Remove from exposure

If on skin: Wash skin with soap and water If in eyes: Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a physician. If swallowed: Dilute by drinking water

#### SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA Flash Point (method used): N/A LEL: N/A UEL: N/A Flammable Limits: N/A Extinguishing Media: None required - not combustible Special Fire Fighting Procedures: None Unusual Fire and Explosion Hazards: None

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum, or wash into a receptacle for disposal.

Waste Disposal Method: Follow Federal or State and Local regulations for disposal. Testing of the waste may be required to determine status under the hazardous waste regulations.

#### SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND USE:

- Engineer Control None
- Work practices- Store away from feed and food. Do not smoke, eat or drink while handling.
- Procedure/equipment: None
- Procedure for leaks or spills: Uncontaminated material may be recovered and reused. If
- contaminated, scoop, vacuum, or wash into a receptacle for disposal.
- Waste Disposal Method: Follow Federal or State and Local regulations for disposal.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Use of the following protective measures are strongly recommended if the glazes are to be applied by spraying.

The Work/Hygienic Practices apply regardless of the method of application. Respiratory Protection (Specify Type): Use a NIOSH approved dust and/or fume respirator as necessary. Ventilation: Local Exhaust - for spraying

Protective Gloves: N/A

Eye Protection: for spraying

Other Protective Clothing or Equipment: Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons. Work/Hygienic Practices: Food, beverages, and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Various colors Odor and odor threshold: Negligible Ph: Not available Boiling Point: None Vapor Pressure: NA Vapor Density: NA

Item Numbers: 30454-1001, 30454-1002

Melting Point: above 1000oF Specific Gravity (H2O=1): 1.4 to 1.6 Flammable Limits: None Explosive limits: None Partition Coefficient: None Oxidizing Properties: None Solubility in Water: Negligible Percent Volatile by Volume: None Evaporation Rate: None Freezing point: NA Flash Point: None Auto ignition temperature: None

#### SECTION 10: STABILITY AND REACTIVITY DATA

- Incompatibility (material to avoid): Avoid fumes from firing by venting kiln area.
- Stability: Stable (conditions to avoid): N/A
- Hazardous Decomposition or Byproducts: Not available.
- Hazardous Polymerization: Will not occur
- Conditions to avoid: Fumes from firing in kiln. Inhalation of spray.

#### SECTION 11: TOXICOLOGY INFORMATION

Hazard to Human: None during normal use. Harmful if inhaled or swallowed. DO NOT SPRAY APPLY

- If glaze is spray applied the following warnings apply: Warning: Contains Quartz.
- 1. Possible cancer agent based on tests with laboratory animals.
- 2. Exposure may cause lung damage.

3. Keep out of reach of children; avoid inhalation. This product contains chemicals known to the State of California to cause cancer.

- Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.
- Additional information: Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit.

#### SECTION 12: ECOLOGICAL INFORMATION

- Mobility: Not available.
- Persistence/degradability: Not available.
- Bioaccumulation: Not available.
- Ecotoxicity: Not available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Follow your Federal or State and Local regulations for disposal. Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. Testing of the waste may be required to determine status under the hazardous waste regulations.

Waste from residue/unused product: Can be landfilled according to local regulations. Contaminated packing: Can be landfilled according to local regulations.

#### SECTION 14: TRANSPORTATION INFORMATION

UN Number: None for this product.

#### SECTION 15: REGULATORY INFORMATION

Silica is listed by California , Proposition 65 Silica is listed on the IARC, OSHA or NTp carcinogen list. All ingredients are on U.S. TSCA / EC / AICS / DSL Inventory. See local requirements.

Item Numbers: 30454-1001, 30454-1002

EU Status: Symbol- None WHMIS Status : Not Controlled

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#### SECTION 16: ADDITIONAL INFORMATION

This information is furnished with out warranty, representation, inducement or license of any kind, except that it is accurate to the best of knowledge of COLORAMICS, LLC or obtained from sources believed to be accurate.

COLORAMICS, LLC does not assume any legal responsibility for use or reliance on same. Customers are encouraged to conduct their own tests before using any product. Read the product label.

For more information in AUSTRALIA see web site www.nohsc.gov.au

# Revel Feb 2006

# Material Safety Data Sheet

CHROMA INC	
Manufacturer	
205 BUCKY DRIVE	
Address	
LITITZ PA 17543	

.

(717)626-8866 Phone Number (For Information) (717)626-8866

Emergency Phone Number

# SAX TEMPERA EXTENDER

Identity (Trade Name As Used On Label)

10/05

MSDS Number\*

CAS Number\*

Date Prepared

Prepared By\*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

409123

# SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Telex\*

COMPONENTS — Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
PRODUCT IS WATER BASED, NON-TOXIC, NON-HAZARDOUS				
ACRYLIC MEDIUM. IT CARRIES THE AP SEAL AND IS CERTIFIED				
BY THE ART & CREATIVE MATERIALS INSTITUTE.				
1. WATER				
2. ACRYLIC THICKENER - ACCOGUM MIXTURE				
3. PRESERVATIVE4%				
*PRESERVATIVE RATED NON-TOXIC WHEN USED IN THE				
AMOUNT OF .4%				
**_INGREDIENTS_ARE THE SAME FOR ALL SIZES OF THIS				
PRODUCT			2 <b>4</b> .	
Non-Hazardous Ingredients				
TOTAL	100 ·		•	

# SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling 215-275°F	Specific Gravity NOT KNOWN
Vapor Pressure	Melting
(mm Hg and Temperature) NOT KNOWN	Point NOT KNOWN
Vapor Density	Evaporation Rate
(Air = 1) LIGHTER THAN AIR	(
Solubility	Water
in Water TOTALLY SOLUBLE	Reactive NOT KNOWN

#### Appearance and Odor CLEAR GEL, MAY BE SLIGHT AMMONIA SMELL

# SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	N/A	Auto-Ignition Temperature	N/A	Flammability Limits in Air % by Volume	N/A	LEL UNKNOWN UNKNOWN
Extinguisher Media	N/A					
Special Fire Fighting Procedu	res N/A				•••••••••••••••••••••••••••••••••••••••	·
						· · · · · · · · · · · · · · · · · · ·

Unusual Fire and N/A Explosion Hazards

SECTION	4 - REACTIVI	TY HAZARD DATA	PAGE 2 -SAX T	EMPERA EXTENDER	
TABILITY ⊠ Stable ⊒ Unstable	Conditions To Avoid N/A				
ncompatability Materials to Avo	id) NONE		•		
Hazardous Decomposition F HAZARDOUS PC May Occur Will Not Occ		Conditions To Avoid N/A			
SECTION	5 - HEALTH I	HAZARD DATA	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
PRIMARY ROUT	Skin Abs		CARCINOGEN IS LISTED IN	NTP     OSHA     IARC Monograph     X Not Listed	
IEALTH HAZAR	Chronie	DNE DNE			
Signs and Symp of Exposure		DNE			
	ated by Exposure			······	
		ES - Seek medical assistanc	e for further treatment, observ	ation and support if necessary.	
	NONE				
Skin Contact	NONE			· · · · · · · · · · · · · · · · · · ·	
	• • • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · · · · ·	
			MEASURES		
SECTION	6 - CONTROL			>E	
SECTION Respiratory Prote Specify Type)	6 - CONTROL	EDED UNDER NORM	AL CONDITIONS OF US		
SECTION Respiratory Prote Specify Type) Protective Glove: VENTILATION	6 - CONTROL ection NONE NE NOT REQU	EDED UNDER NORM	AL CONDITIONS OF US	T REQUIRED	
SECTION Respiratory Prote Specify Type) Protective Gloves	6 - CONTROL ection NONE NE NOT REQUI Local Ex	EDED UNDER NORM	AL CONDITIONS OF US	T REQUIRED	
SECTION Respiratory Prote Specify Type) Protective Gloves (ENTILATION O BE USED Other Protective Clothing and Eq	6 - CONTROL ection NONE NE NOT REQUI Local Ex Other (spectrum)	EDED UNDER NORM/ IRED <sup>haust</sup> N/A	AL CONDITIONS OF US	T REQUIRED	
SECTION Respiratory Prote Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Eq Hygienic Work	6 - CONTROL action NONE NE NOT REQUI Local Ex Upment NOT R	EDED UNDER NORM/ IRED haust N/A pecify) N/A	AL CONDITIONS OF US	T REQUIRED	
SECTION Respiratory Prote (Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Eq Hygienic Work Practices	6 - CONTROL ection NONE NE NOT REQUI Local Ex D Other (sp uipment NOT R AS WITH ANY M	EDED UNDER NORM/ IRED haust N/A pecify) N/A EQUIRED WATER BASED ACRY	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC	T REQUIRED	
SECTION Respiratory Prote Specify Type) Protective Gloves /ENTILATION FO BE USED Other Protective Clothing and Eq Hygienic Work Practices SECTION Steps to be Take	6 - CONTROL action NONE NE NOT REQUI Local Ex Other (sp uipment NOT R AS WITH ANY M 7 - PRECAUT an If Material Duce	EDED UNDER NORM/ IRED haust N/A pecify) N/A EQUIRED WATER BASED ACRY	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC ANDLING AND USE	DT REQUIRED /A D Special N/A	
SECTION Respiratory Proto Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Eq Hygienic Work Practices SECTION Steps to be Takk s Spilled Or Re Waste Disposal	6 - CONTROL action NONE NE NOT REQUI Conter (sp Local Ex Other (sp Local Ex Other (sp Local Ex Other (sp AS WITH ANY M 7 - PRECAUT an If Material DIKE	EDED UNDER NORM/ IRED haust N/A pecify) N/A EQUIRED WATER BASED ACRY IONS FOR SAFE H	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC ANDLING AND USE	DT REQUIRED /A D Special N/A	
SECTION Respiratory Prote Specify Type) Protective Gloves ENTILATION O BE USED Other Protective Clothing and Eq Hygienic Work Practices SECTION SECTION Steps to be Takk is Spilled Or Re Vaste Disposal Aethods	6 - CONTROL action NONE NE NOT REQUI Local Ex Other (sp Uipment NOT R AS WITH ANY V 7 - PRECAUT an If Material DIKE NOR e Taken	EDED UNDER NORM/ IRED Inaust N/A pecify) N/A EQUIRED WATER BASED ACRY IONS FOR SAFE H	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC ANDLING AND USE	DT REQUIRED /A D Special N/A	
SECTION Respiratory Prote Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Eq Hygienic Work Practices SECTION Steps to be Take s Spilled Or Re Waste Disposal Methods Precautions to b in Handling and	6 - CONTROL action NONE NE NOT REQUI Local Ex Other (sp Uipment NOT R AS WITH ANY V 7 - PRECAUT an If Material DIKE NOR e Taken	EDED UNDER NORM/ IRED Inaust N/A pecify) N/A EQUIRED WATER BASED ACRY IONS FOR SAFE H AND CONTAIN SPILL MAL DISPOSAL	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC ANDLING AND USE	DT REQUIRED /A D Special N/A	
SECTION Respiratory Prote Specify Type) Protective Gloves VENTILATION TO BE USED Other Protective Clothing and Eq Hygienic Work Practices SECTION Steps to be Take s Spilled Or Re Waste Disposal Methods Precautions to b in Handling and	6 - CONTROL action NONE NE NOT REQUI Local Ex Other (sp Local Ex Other (sp Differed by the second se	EDED UNDER NORM	AL CONDITIONS OF US Eye Protection NC Mechanical (general) N LIC ANDLING AND USE	DT REQUIRED /A D Special N/A	

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	Beve	AP	RIL O	2	40	227	10
Sectio	on 1 – Proc				n and U	292	
PRODUCT IDENTIFIER Tempera Varn	ish				CT IDENTIFICATIO		
PRODUCT USE Protective Varnish for				111000	OT IDENTIFICATIO	ni NOME	sen (rin)
MANUFACTURER'S NAME Demco Ma		SUPPLIE	R'S NAME	Sax Arts	& Crafts		
STREET ADDRESS 2 Waterman Street	the second s		the second se	2405 S. C	Calhoun Rd.	12.22	
CITY St.Lambert PROVINCE POSTAL CODE EMERGENC	Quebec CY TELEPHONE NO	ZIP COD	second statements in a local data		STATE Wis		THONE NO.
J4P 1H8 (45	0) 672-9931	53151			EMERGEN (262) 784-6		PHONE NO
	Section 2 -	Ingre	dient	Info	rmation		
HAZARDOUS INGREDIENT	S % by wt.	CAS NU	IMBER		F INGREDIENT Y SPECIES AND R	OUTE)	LC50OF INGREDIENT (SPECIFY SPECIES)
Styrene Acrylic Polymers (Non-Hazardo	us) 45 - 50	Not av	ailable		Not established		Not established
Water	45 - 55	7732	-18-5		Not established		Not established
Ammonium Hydroxide	1 - 4	1336	21-6	35	50 mg/kg (oral - rat)		25 ppm ACGIH/OSHA TWA, 35 ppm ACGIH/OSHA STEL
Ethoxylated Octyl Phenol	1-3	9036-	19-5		Not established		Not established
Polypropylene Glycol	1-3	25322			Not established		Not established
	Santia	2	Dhuo		loto		
	Sectio						
PHYSICAL STATE Liquid	ODOUR AND AP	and the second s	Ammonia		BOILING POI		FREEZING POINT [C]
mm Hg) same as water	(AIR=1) N/A		butyl acetat				N/A
PH 8.0 - 9.0	SPECIFIC GRAV		EFF WATE		and the state of the second of the local data was and the second data was not the second data w		
A REPORT OF THE REPORT OF THE PARTY OF THE	1.05 - 1.07						
LASHPOINT [C] AND METHOD N/A	UPPER FLAMMABL	-			LOWER FLAMMA	BLE LIM	IT (% BY VOLUME) N/A
UTOIGNITION TEMPERATURE [C]	HAZARDOUS COME	BUSTION P	RODUCTS				
UNUSUAL FIRE AND EXPLOSION HAD		quirements.	Container	may burn	and leak in heat of i	fire.	
CHEMICAL STABILITY YES X NO I IF NO UNDER WHICH CONDITIONS		5 – R	eactiv	vity D	)ata		
NCOMPATIBILITY WITH OTHER SUB	STANCES						
WHICH ONES?							
REACTIVITY, AND UNDER WHAT CON	IDITIONS						
None reasonably foreseen HAZARDOUS POLYMERIZATION will	not occur						
HAZARDOUS DECOMPOSITION PROI	DUCTS						
Produces normal products of combustion	n.						
ROUTE OF ENTRY	ection 6 – 7	<b>Foxic</b>	ologic	cal Pr	operties		
SKIN CONTACT X	SKIN ABSORPT						NGESTION X
SKIN CONTACT x EFFECTS OF ACUTE EXPOSURE TO May cause mild eye irritation. Prolonged or	SKIN ABSORPT PRODUCT repeated skin contact m		EYE C	ONTACT			
SKIN CONTACT x EFFECTS OF ACUTE EXPOSURE TO May cause mild eye irritation. Prolonged or EFFECTS OF CHRONIC EXPOSURE T	SKIN ABSORPT PRODUCT repeated skin contact m O PRODUCT	<b>ΓΙΟΝ □ .</b> bay cause mil	EYE Co d skin irritat	ONTACT >	k INHALATIO	and abde	ominal discomfort.
SKIN CONTACT x EFFECTS OF ACUTE EXPOSURE TO May cause mild eye irritation. Prolonged or EFFECTS OF CHRONIC EXPOSURE T	SKIN ABSORPT PRODUCT repeated skin contact m O PRODUCT	<b>ΓΙΟΝ □ .</b> bay cause mil	EYE Co d skin irritat	ONTACT >	k INHALATIO	and abde	ominal discomfort.
SKIN CONTACT x EFFECTS OF ACUTE EXPOSURE TO May cause mild eye irritation. Prolonged or EFFECTS OF CHRONIC EXPOSURE T Prolonged or repeated skin contact may cau MEDICAL CONDITIONS GENERALLY susceptible to irritating effects.	SKIN ABSORPT PRODUCT repeated skin contact m O PRODUCT	TION 🗆 . Day cause mil	EYE C d skin irritat AVATED B SENSITIZ	ONTACT >	k INHALATIO	and abdo e-existing	ominal discomfort.
SKIN CONTACT x EFFECTS OF ACUTE EXPOSURE TO May cause mild eye irritation. Prolonged or EFFECTS OF CHRONIC EXPOSURE T Prolonged o, repeated skin contact may cau MEDICAL CONDITIONS GENERALLY susceptible to irritating effects. EXPOSURE LIMITS N/A	SKIN ABSORPT PRODUCT repeated skin contact m O PRODUCT use skin irritation. RECOGNIZED AS BE	FION D . hay cause mill FING AGGR JCT N/A	EYE C d skin irritat AVATED B SENSITIZ N/A	ONTACT >	K INHALATIO	and abdo e-existing CARCIN	ominal discomfort. skin disorders may be more

Sect	ion 7 – Preventive Measu	Ires
PERSONAL PROTECTIVE EQUIPMENT		
PROTECTIVE GLOVES (SPECIFY)	RESPIRATORY PROTECTION (SPECIFY)	EVE PROTECTION/OPECIEN
Recommended for prolonged exposure to skin.	No special requirements under normal conditions.	EYE PROTECTION(SPECIFY)
otherwise not needed.	No special requirements under normal conditions.	Recommended to protect against splashes.
SPECIAL FOOTWEAR(SPECIFY)		
Not needed	OTHER PROTECTIVECLOTHING (SPECIFY) None needed	
ENGINEERING CONTROLS (SPECIFY, EG VEN		
General room ventilation adequate.	TLATION, ENCLOSED PROCESS)	
STEPS TO BE TAKEN IN CASE MATERIAL IS R		
Floors may be slippery. Care should be exercised	to avoid falls. May be toxic to aquatic life. Do not	let spilled or leaking meterial enter waterneums
Contains ammonia. Absorb with oil-dry or similar in	pert material. Sweep or scrape up and containerize.	Rinse affected area thoroughly with water
WASTE DISPOSAL METHOD	en material. Ewcep of scrape of and comamenza.	Thise anected area inorodyny with water.
	l, provincial and state regulations and local or munic	inal ordinances regarding disposal of pop
hazardous materials.	, provincial and state regulations and local of munic	ipai orumances regarding disposal or non-
PRECAUTIONS TO BE TAKEN IN HANDLING		
Avoid contact with eyes. Avoid prolonged contact v	vith skin. Wash thoroughly after handling	
STORAGE REQUIREMENTS		
Store in a cool, dry place with adequate ventilation	Avoid extremes of heat and cold	
SPECIAL SHIPPING INFORMATION	interior oxitomos of noar and cold.	
Do not allow to freeze. Ship in heated containers d	uring winter months	
REGULATORY INFORMATION		
WHIS CLASSIFICATION - Non-regulated		
		•
All ingredients of this product are listed or are exclu	Ided from listing on the U.S. Toxic Substance Contr	ol Act (TSCA) Chemical Substance Inventory.
All ingredients in this product comply with the New	Substances Notification requirements under the Cal	nadian Environmental Act (CEPA).
This product is not subject to the reporting requi- following reporting requirements: PA - The Pennsylvania Hazardous Substance List NJ - The New Jersey Right to Know Hazardous Su MA - The Massachusetts Hazardous Substance List		e ingredients from Section 2 are subject to the
Soc	tion 8 – First Aid Measur	·00
SPECIFIC MEASURES:	tion o - First Alu Measur	5
Inhalation: Remove to fresh air. If breathing is affe	noted ant modical attention	
•		
Eye Contact: Flush immediately with large amount	ts of water for at least 15 minutes. If irritation develo	ps, get medical attention.
Skin Contact: Wash contaminated area with soap	and water. If irritation develops, get medical attention	on
Ingestion: Immediately drink 1 or 2 glasses of wa administer anything by mouth to an unconscious p	ter or milk to dilute. If discomfort persists, seek med erson.	ical attention. Treat symptomatically. Do not
Section	9 – Preparation Date of	MSDS
PREPARED BY (GROUP DEPARTMENT, ETC)	PHONE NUMBER	DATE
Alex Dear, laboratory	(450) 672-9931	March 07, 2002

Demco Manufacturing Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty of merchantability or fitness for use. Demco Manufacturing Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

				Feb 200				0667+668
Se	ction	1 – Prod				and		
PRODUCT IDENTIFIER Tempera	a Varnish M	fatte				IDENTIFICA		BER (PIN)
PRODUCT USE Protective Varnis	sh for Temp	pera Paintings						
MANUFACTURER'S NAME Demo		cturing Inc.		PLIER'S NAME			2	······································
STREET ADDRESS 5485 Ramsa CITY St. Hubert PROVI	ay INCE Quél	hec		EET ADDRESS	) 5485 Ramsaj		Quehec	
POSTAL CODE EMER	RGENCY TE	ELEPHONE NO	ZIP C	CODE			ENCY TELE	PHONE NO
J3Y 2S3	(450) 67.		J3Y 2			(450) 672		
		ction 2 –	Ing	redient	Inform	nation		
HAZARDOUS INGREDI		% by wt.	CAS	NUMBER		NGREDIEN		LC <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES)
Styrene Acrylic Polymers (Non-Ha	azardous)	45 - 50	No	ot available	Nc	ot established	d	Not established
Water		40 50	7	732-18-5	Nc	ot established	d	Not established
Ammonium Hydroxide		1 - 4	1:	336-21-6	350 r.	mg/kg (oral - I	rat)	25 ppm ACGIH/OSHA TWA, 35 ppm ACGIH/OSHA STEL
Ethoxylated Octyl Phenol		1 – 3	9/	036-19-5	Nc	ot established	d	Not established
Polypropylene Glycol		1-3	25	5322-69-4	Nc	ot established	đ	Not established
Fumed silica		>1.7	67	7762-90-7	Nc	ot established	d l	Not established
		Sectio	in 3	– Phys	ical Da	ata		
PHYSICAL STATE Liquid		ODOUR AND AP					ODOUR T	HRESHOLD (PPM) N/A
VAPOUR PRESSURE		VAPOUR DENSIT		EVAPORATIO	ON RATE	BOILING F	POINT [C]	FREEZING POINT [C]
(mm Hg) same as water PH 8.0 - 9.0		(AIR=1) N/A		(n-butyl acetal		>93 °C (>		N/A
ΡΗ 8.0 - 9.0		SPECIFIC GRAV		CUEFF WAT	ER/OIL DIST	N/A	I	
		tion 4 – F	-ire	and Ex	mosio	n Data		
FLAMMABILITY YES D NO X IF YES UNDER MEANS OF EXTINCTION N/A						· · · · · · · · · · · · · · · · · · ·		
FLASHPOINT [C] AND METHOD	N/A	· · · · · · ·				WER FLAM	MABLE LIM	NIT (% BY VOLUME) N/A
AUTOIGNITION TEMPERATURE [ N/A	-   N/A				-			
UNUSUAL FIRE AND EXPLOSIO	N HAZARI						of fire.	
		Section	5 –	Reacti	vitv Da	ta		
CHEMICAL STABILITY			<b>Deliver</b>					
YES X NO I IF NO UNDER WHICH CONDIT	TIONES							
INCOMPATIBILITY WITH OTHER		NCES				····		
YES 🗆 NO x IF SO,								
WHICH ONES? REACTIVITY, AND UNDER WHAT	TCONDIT		<u> </u>					
None reasonably foreseen			·					
HAZARDOUS POLYMERIZATION								
HAZARDOUS DECOMPOSITION Produces normal products of comb		is.						
		tion 6 – T		eelogic	Pro Dro	eartic		
	JEC		0Al	cologie		Delities	<i>5</i>	
ROUTE OF ENTRY SKIN CONTAC	AT x	SKIN ABSORPT		EYE C	CONTACT X	INHALAT		INGESTION x
EFFECTS OF ACUTE EXPOSURE May cause mild eye irritation. Prolong	E TO PROD	DUCT		· · · · · · · · · · · · · · · · · · ·				
EFFECTS OF CHRONIC EXPOSU	JRE TO PR	RODUCT	<u> </u>		<u></u>			
Prolonged or repeated skin contact ma MEDICAL CONDITIONS GENERA			ING AC		AV EVDASUR	- D-moone wit	1 aviotine	1. Dender way be more
susceptible to irritating effects.			ING AC	GRAVAILU	ST EAFUGUI	EPersons with	1 pre-елізниц	skin disoraers may ve more
EXPOSURE LIMITS N/A	IRRITA	NCY OF PRODUC	CT N/A	SENSITIZ	ZATION TO PR	RODUCT	CARCIN	IOGENICITY N/A

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TERATOGENICITY N/A

# **Material Safety Data Sheet**

PREPARED BY (GROUP DEPARTMENT, ETC) Alex Dear, laboratory	(450) 672-9931	January 31, 2005
	PHONE NUMBER	DATE
Section	9 – Preparation Date of	MSDS
Ingestion: Immediately drink 1 or 2 glasses of wa administer anything by mouth to an unconscious pe	ter or milk to dilute. If discomfort persists, seek med erson	ical attention. Treat symptomatically. Do not
okin oomaal. Wash contaninateu area Will SOAp	and water. In Initiation develops, get medical attentic	41
Skin Contact: Wash contaminated area with soan	and water. If irritation develops, get medical attentic	0
Eye Contact: Flush immediately with large amount	ts of water for at least 15 minutes. If irritation develo	ps, get medical attention.
innalation. Remove to nesh air. II breathing is and	soleu, get meuluai allention.	
Inhalation: Remove to fresh air. If breathing is affe	acted net medical attention	
SPECIFIC MEASURES:		
Sec	tion 8 – First Aid Measu	'es
		· · · · · · · · · · · · · · · · · · ·
MA - The Massachusetts Hazardous Substance Li	st	
NJ - The New Jersey Right to Know Hazardous Su	ıbstance List	
PA - The Pennsylvania Hazardous Substance List		
This product is not subject to the reporting requirer reporting requirements:	ments under California's Proposition 65. These ingre	edients from Section 2 are subject to the follow
All ingredients in this product comply with the New	Substances Notification requirements under the Ca	nadian Environmental Act (CEPA).
An ingredients of this product are listed or are exclu	uded from listing on the U.S. Toxic Substance Contr	DI ACT (ISCA) Chemical Substance Inventory.
WHIS CLASSIFICATION - Non-regulated		
REGULATORY INFORMATION		
Do not allow to freeze. Ship in heated containers d	luring winter months.	
SPECIAL SHIPPING INFORMATION	. Avoia extremes of near and cold.	
STORAGE REQUIREMENTS Store in a cool, dry place with adequate ventilation.	Avoid extremes of heat and cold	
Avoid contact with eyes. Avoid prolonged contact v STORAGE REQUIREMENTS	wiur skin, vvasn inorougniy aπer nanaling.	
	with skin. Wash thoroughly after handling	
hazardous materials. PRECAUTIONS TO BE TAKEN IN HANDLING		······
	l, provincial and state regulations and local or munic	ipal ordinances regarding disposal of non-
WASTE DISPOSAL METHOD		· · ·
	nert material. Sweep or scrape up and containerize.	Rinse affected area thoroughly with water.
	t to avoid falls. May be toxic to aquatic life. Do not	
STEPS TO BE TAKEN IN CASE MATERIAL IS R		
General room ventilation adequate.		
ENGINEERING CONTROLS (SPECIFY, EG VEN	TILATION, ENCLOSED PROCESS)	
Not needed	None needed	
SPECIAL FOOTWEAR(SPECIFY)	OTHER PROTECTIVECLOTHING (SPECIFY)	
Recommended for prolonged exposure to skin, otherwise not needed.	No special requirements under normal conditions.	Recommended to protect against splashes.
	RESPIRATORY PROTECTION (SPECIFY)	EYE PROTECTION(SPECIFY)
PERSONAL PROTECTIVE EQUIPMENT PROTECTIVE GLOVES (SPECIFY)	RESPIRATORY PROTECTION (SPECIFY)	EYE PROTECTION(SPECIFY)

Demco Manufacturing Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty of merchantability or fitness for use. Demco Manufacturing Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

# **Sax True Flow Block Printing Ink**

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements. Run		Occupational (Non-Mandat Form Appro-	d	Administration 461	
IDENTITY (As Used on Label and List) SPE	EDBALL Water-S	aluble Block	printing Ink	175- (3400 to 34	
Section I	3548.3549; 360	0 to 3617,30	48,3649; 370	0 to 3717,37	48,3749)
Manufacturer's Name		Emergency Tota	choose bloose		
SDEEDDALL ADT DOGO		Emergency Tele 704-5	36-1475		
SPEEDBALL ART PROD	UCTS -	Telephone Num	ber for Information		
2226 SPEEDBALL RO	AD	704-8	38-1475		
STATESVILLE, NC 28	677	Date Prepared	100 (cf) .		
,		Signature of Pre	Parer (optionals		
Continue II		47	Lon	-	•••
Section II - Hazardous Ingredients/	Identity Informatio	n í í	100	1 .	
Hazardous Components (Specific Chemical Ider	tity: Common Name(e))	OSHA PEL		Other Limits	
Approved for the AP Seal (No	n-toxic) by the	COSHA PEL	ACGIH TLV	Recommended	% (optional)
Approved for the AP Seal (No	n-LOXIC) by the	Art & Crea	tive Materia	s Institute	, Inc. (ACMI)
Product labeling conforms to	ASTM D4236.				
Note: TEL					
Note: This product has been	evaluated by a	Toxicologi	st only as pe	er intended	usage.
Do not deviate from i	ntended usage!				
Section III - Physical/Chemical Char	acteristics				
oiling Point	212-369°F	Specific Gravity (	1 <sub>2</sub> O = 1)		1.2 to 1.7
apor Pressure (mm Hg.)		Melting Point			1.2 10 1.7
por Density (AIR = 1)	Unknown				<32°F.
ipor Density (AIH = 1)		Evaporation Rate			
olubility in Water	Unknown	(Butyl Acetate = 1	ı) ·		less than 1
Dilutable					
ppearance and Odor Thick paste with s	light odor				
ection IV — Fire and Explosion Haz	ard Data				
ash Point (Method Used)		Flammable Linhits	· · ·	1	
Not applicable (N/A)	0.0000000000000000000000000000000000000	N/A		N/A	UEL N/A
dinguishing Media				1 11/1	N/A
N/A Decial Fire Fighting Procedures					
Wear self-contained breat	thing apparatus	1			1 .
wear self-contained breat	apparatus	(pressure-o	iemand, MSHA/	NIOSH appro	ved or
equivalent) and full prot nusual Fire and Explosion Hazards	tective gear.	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	· · · · · · · · · · · · · · · · · · ·		A States
Material can spatter abov	ve 212 <sup>0</sup> F. Film	can burn.	San Wear Store		
				·	784 T 10 4 10 10
eproduce locally				10	

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OSHA 174, Sept. 1985

	- Reactivity Da	6.3	5 8			7 B' - 1.5.
Starty	Unstabia		Conditions to Avoid	of decompositio		
	Stable				TIS SOUT	I
Incompatibility	(Materials to Avoi		1		• •	
		N/A				
Hazardous Deca	imposition or Bypit		ides of carbon and ni	+ 100000		
Kazaroous	May Occur		Conditions to Avoid	L. 00=11.		4°47
Polymanization	Will Not Coour		N/A		2	
		X	1			
	- Health Haza					
Fourtes) of Entr	Y- N/A "	nclation?	Skini		ingastion	. * 14
Hoalth Hazards	(Acute and Chrone					
		N/4				· · · · · · · · · · · · · · · · · · ·
					• • • •	i schoù
			• • •			
Carcinogenicity:	N/A	TP?	IARC	Monographs?	OSHA Re	rgulated?
						······································
Signs and Symp	proms of Exposure					
		N/A				
Madical Condition	ons	N/A				
Generally Aggra	rvated by Expassive	N/P	1			
Energency and	First Aid Procedu	es Con	tact with eyes may ca	use mild irritat	ion: Flust	with water.
		Con		use mild irrita	ion: Flust	with water.
Section Vil	- Precautions	tor Sa at is Rele	ile Handling and Use	- 1999-1997		
Section Vil	- Precautions	tor Sa at is Rele	ife Handling and Use	- 1999-1997		
Section Vil Steps to Be Ta	- Precautions	tor Sa at Is Role e Sli	ife Handling and Use assod or Spilled DDery; use care to av	- 1999-1997	ansfer to c	containers for
Section Vil Steps to Be Ta	— Precautions ken in Case Mater Floor may b	tor Sa at Is Role e Sli	ife Handling and Use assod or Spilled DDery; use care to av	oid falling. Tr	ansfer to c	containers for
Section Vil Steps to Be Ta	- Precentions ken in Case Mater Floor may b recovery or Method	Con for Sa at Is Role ie slip disp	Me Handling and Use Pased or Spilled DDery; use care to av Dsal. Keep out of mu	oid falling. Tr nicipal sewers a	ansfer to c nd open bod	containers for lies of water.
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Section VII Steps to Be Ta Warte Discosal Precautions to Other Precaution Section VIII Respiratory Pre	- Precautions ken in Case Malen Floor may b recovery or Meshod Incinerate federal re- Be Takan in Hand Keep from N/A - Control Mi Sector (Specty Tr	ton for Sa al Is Role e Sli disp: disp: at a <u>oulati</u> ing and S freezi	Me Handling and Use assd or Spilled DDery; use care to av osal. Keep out of mu permitted facility ac ons. boring ng - product may coas	oid falling. Tr nicipal sewers a cording to curr pulate.	ent local.	containers for lies of water. state and
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#### 466337

#### Workable Fixative - 466337

Issued to . . . . . . . . . . School Specialty Sax Arts and Craft P.O.Box 1017

Appleton

WI 54912-1017

Attention: . . . . . . . . . Material Safety Data Sheet Coordinator

The attached Material Safety Data Sheet relates potential hazards and recommended practices for safe handling of the product that you purchased from Raabe Company.

We urge you and your employees to review the entire MSDS prior to handling, use or disposal of the product.

You are required to keep this MSDS on file for reference by company employees or government regulatory officials.

If you resell or distribute this product, you must furnish a copy of the MSDS to your customer.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \_\_\_\_\_ CHEMICAL PRODUCT IDENTIFICATION: PRODUCT CODE. . . . : 01050 000470 604 PRODUCT NAME . . . : WORKABLE FIXATIVE PRODUCT CLASS . . : Aerosol Product MSDS PREPARATION DATE : 02/27/2007 MANUFACTURER IDENTIFICATION: CUSTOMER IDENTIFICATION: RAABE COMPANY School Specialty PO BOX 1090 Sax Arts and Craft P.O.Box 1017 MENOMONEE FALLS WI 53052-1090 WI 54912-1017 Appleton EMERGENCY TELEPHONE NUMBERS: 24 HOURS A DAY - CALL CHEMTREC : 800-424-9300 INTERNATIONAL CALLS TO CHEMTREC : 703-527-3887 8 AM TO 4:30 PM CENTRAL TIME : 262-255-9500 \_\_\_\_\_ SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \_\_\_\_\_ 1 N-BUTANE CAS# 106-97-8 N-BUTANE PCT BY WT: 11.0000 VAPOR PRESSURE: 879.100 MMHG @ 68F LEL 1.80 EXPOSURE LIMIT: ACGIH TLV-TWA 800 ppm ACGIH TLV-STEL NO INFO 800 ppm OSHA PEL-TWA COMPANY N.E.

Page 1

Workable Fixative - 466337 LD50(ORAL) N.A. LD50(DERMAL) Ν.Α. LC50 658000 mg/m3 (rat) \_\_\_\_ 2 PROPANE CAS# 74-98-6 PROPANE PCT BY WT: 14.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F LEL 2.20 POSURE LIMINLUCU PACGIH TLV-TWALUCU PACGIH TLV-STELNO INFORMATIONLD50(ORAL)NOT APPLICABLE'D50(DERMAL)NOT APPLICABLENO INFORMATION EXPOSURE LIMIT: 3 BUTYL BENZYL PHTHALATE CAS# 85-68-7 BUTYL BENZYL PHTHALATE PCT BY WT: 1.0000 LEL .30 EXPOSURE LIMIT: ACGIH TLV-TWA 5 mg/m3ACGIH TLV-STEL N.E. OSHA PEL-TWA 5 mg/m3OTHER CALIFORNIA PROP 65-Developmental(listed 12/2/05) 4 ACETONE CAS# 67-64-1 ACETONE PCT BY WT: 54.0000 VAPOR PRESSURE: 231.000 MMHG @ 68F LEL 2.60 EXPOSURE LIMIT: ACGIH TLV-TWA 750 ppm 1000 ppm ACGIH TLV-STEL OSHA PEL-TWA 750 ppm 1000 ppm OSHA PEL-STEL COMPANY N.E. 5340 mg/kg (rabbit) 5340 mg/kg (rabbit) 20000 mg/kg (rabbit) 70852 mg/m3 (rat) LD50(ORAL) LD50(DERMAL) LC50 5 GLYCOL ETHER PM ACETATE CAS# 108-65-6 PROPYLENE GLYCOL METHYL ETHER ACETATE PCT BY WT: 18.0000 VAPOR PRESSURE: 3.700 MMHG @ 68F LEL 1.30 EXPOSURE LIMIT: ACGIH TLV-TWA NOT ESTABLISHED ACGIH TLV-STEL NOT ESTABLISHED 8500 mg/kg (rat) 5000 mg/kg (rat) 5321 mg/m3 (rat) LD50(ORAL) LD50(DERMAL) LC50 This product contains no reported carcinogens or suspected carcinogens. SECTION 3 - HAZARDS IDENTIFICATION EMERGENCY OVERVIEW: Harmful if swallowed. Harmful if inhaled. Causes eye irritation. Causes skin irritation.

Workable Fixative - 466337 Vapors irritating to eyes and respiratory tract. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Extremely flammable aerosol. Contents under pressure. EYE: May cause eye irritation. SKIN: May cause skin irritation. INHALATION: Exposure to high concentrations of vapors may cause dizziness, breathing difficulty, headaches or respiratory irritation. Extremely high concentrations may cause drowsiness, staggering, confusion, unconsciousness, coma or death. Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal. **INGESTION:** CHRONIC EFFECTS: Chronic overexposure to a component or components in this material has been found to cause the following effects in laboratory animals: Kidney damage Eye damage Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Contains butyl benzyl phthalate which has been shown to cause cancer in at least one study in laboratory animals. Butyl benzyl phthalate is listed by the National Toxicoloty Program (NTP) as producing significant maternal and developmental toxicity. SECTION 4 - FIRST AID MEASURES EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. SKIN CONTACT: wash thoroughly with soap and water and seek medical attention if irritation persists. Remove contaminated clothing. Launder contaminated clothing before reuse. INHALATION: For inhalation overexposure move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention. INGESTION: Since this product may contain materials which can cause lung damage if aspirated into the lungs, the decision whether to induce vomiting or not must be made by a physician after careful consideration of all materials indested. SECTION 5 - FIRE FIGHTING MEASURES FIRE AND EXPLOSIVE PROPERTIES OF THE PRODUCT: Flashpoint . . . . . . . . . . . . . . . Less Than -25 øF Explosion Level . . . . . . . . . . . . . . Low (LEL) ~ . 3 High (UEL)- 100.0 EXTINGUISHING MEDIA: Use Dry Chemical, Carbon Dioxide or Chemical Foam. FIRE-FIGHTING PROCEDURES AND EQUIPMENT: Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heaters or stoves that could cause the container to burst. Do not puncture or incinerate. Do not crush or place in a garbage compactor. Do not store above 120 degrees F. Aerosol containers may explode when exposed to extreme heat.

Workable Fixative - 466337 Product vapors are heavier than air and may travel a long distance to a source of ignition and flash back. Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used. Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred. ------SECTION 6 - ACCIDENTAL RELEASE MEASURES \_\_\_\_\_ CLEAN-UP AND CONTAINMENT: Remove all sources of ignition. Avoid heat, sparks, flames and anything which could cause fire. Ventilate area of spill and adjacent low lying areas. Avoid breathing solvent vapors. Remove with inert absorbent materials and non-sparking tools. SECTION 7 - HANDLING AND STORAGE HANDLING: Wash hands thoroughly after handling. STORAGE: store in a cool dry area with ventilation suitable for storing materials shown in section 2. Keep away from heat, sparks and flame. Store in a cool place away from direct sunlight or any source of ignition. Do not store at temperatures above 120 degrees F. SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ENGINEERING CONTROLS: Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit. **RESPIRATORY PROTECTION:** If workplace exposure limits are exceeded for any component(see section 2 for hazardous components and exposure limits), a NIOSH/OSHA approved respirator suitable for components listed is recommended. SKIN PROTECTION: Chemical resistant plastic or rubber gloves recommended for prolonged or repeated contact. EYE PROTECTION: Chemical goggles with side shields or face shield recommended if contact with the eyes is likely. OTHER PROTECTIVE EQUIPMENT: Appropriate impervious clothing is recommended if prolonged or repeated contact is likely. HYGIENIC PRACTICES: Wash hands before eating or smoking. Smoke in designated areas only. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES 1.0ØF Higher - 464.0 ØF 6.1025 LB/GL 7.700 (n-Butyl Acetate = 1) Page 4

Workable Fixative - 466337 SECTION 10 - STABILITY AND REACTIVITY CONDITIONS TO AVOID: Avoid contact with heat, sparks, and open flame. Product may explode if heated. Keep cool, avoid exposure to heat. INCOMPATIBILITIES: Strong oxidizing agents. DECOMPOSITION: Thermal decomposition may produce carbon dioxide, carbon monoxide, and unidentifiable organic materials. **POLYMERIZATION:** No hazardous polymerization will occur under normal conditions. STABILITY: The product is stable under normal storage conditions. ------SECTION 11 - TOXICOLOGICAL INFORMATION No specific information is available. Please refer to Section 2 and 3 for available information on exposure limits and hazards identification. SECTION 12 - ECOLOGICAL INFORMATION \_\_\_\_\_ No specific ecological information is available for this product. SECTION 13 - DISPOSAL CONSIDERATIONS WASTE DISPOSAL: Place in closed containers. Dispose of product in accordance with local, county, state, and federal regulations. ------SECTION 14 - TRANSPORT INFORMATION Ground shipment of limited or excepted quantities of aerosols or liquid Air shipment of limited or excepted quantities of aerosols or liquid paint in containers of 1 quart or less: CONSUMER COMMODITY, ID 8000, CLASS 9 MISCELLANEOUS LABEL (Regulatory sources: IATA Quantity Exemptions - Table 2.8.4, 2.7.A, 2.7.5, Packaging Instruction: 910) OR AEROSOLS, FLAMMABLE, UN1950, CLASS 2.1 LABEL (Regulatory sources: IATA Quantity Exemptions - Table 2.8.1, 2.8.4, Packaging Instruction: Y203) SECTION 15 - REGULATORY INFORMATION \_\_\_\_\_ SARA 313 INFORMATION: This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are listed on the TSCA Section 8 inventory. STATE REGULATIONS:

Workable Fixative - 466337 This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California a clear and reasonable warning must be provided such as: Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm. NEW JERSEY RIGHT-TO-KNOW The following non-hazardous ingredients are among the top five components in this product ----- CHEMICAL NAME ----- CAS NUMBER Cellulose Acetate Butyrate 9004-36-8 ------PENNSYLVANIA RIGHT-TO-KNOW No non-hazardous ingredients are present greater than 3% INTERNATIONAL REGULATIONS: CANADA: The chemical substances in this product are listed on the Canadian Domestic Substances List. -----\_\_\_\_\_\_ SECTION 16 - OTHER INFORMATION The information contained on this MSDS is believed to be reliable and accurate. Due to the changing nature of government information, it is impossible to guarantee the accuracy of the information contained herein. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. This information should not be regarded as legal advice or regulation. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. For questions relating to specific aspects of the requirements and regulations consult the proper regulatory agency. HMIS RATINGS: HMIS RATINGS: HEALTH: 2\* FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: G

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## SUPERIOR GRAPHITE -- TUBE-O-LUBE

SUPERIOR GRAPHITE -- TUBE-O-LUBE MATERIAL SAFETY DATA SHEET NSN: 915000N033413 Manufacturer's CAGE: 1BG41 Part No. Indicator: A Part Number/Trade Name: TUBE-O-LUBE \_\_\_\_\_ General Information \_\_\_\_\_ Company's Name: SUPERIOR GRAPHITE CO Company's Street: 120 SOUTH RIVERSIDE PLAZA Company's City: CHICAGO Company's State: IL Company's Country: US Company's Zip Code: 60606 Company's Emerg Ph #: 312-559-2999; 708-499-1883 Company's Info Ph #: 312-559-2999 Record No. For Safety Entry: 001 Tot Safety Entries This Stk#: 001 Status: SMJ Date MSDS Prepared: 14MAY90 Safety Data Review Date: 30JUL92 MSDS Preparer's Name: RONAEL B. VAGHN Preparer's Company: SAME MSDS Serial Number: BPBFZ Hazard Characteristic Code: NK \_\_\_\_\_ Ingredients/Identity Information \_\_\_\_\_ Proprietary: NO Ingredient: GRAPHITE; (NATURAL GRAPHITE) Ingredient Sequence Number: 01 Percent: 70-99 NIOSH (RTECS) Number: MD9659600 CAS Number: 7782-42-5 OSHA PEL: 15 MPPCF RDUST ACGIH TLV: 2 MG/M3 RDUST; 9293 -----Proprietary: NO Ingredient: SILICON DIOXIDE, AMORPHOUS; (SILICA) Ingredient Sequence Number: 02 NIOSH (RTECS) Number: 1005470SD CAS Number: 7631-86-9 OSHA PEL: 6 MG/M3 ACGIH TLV: 10 MG/M3 TDUST \_\_\_\_\_\_ Physical/Chemical Characteristics \_\_\_\_\_ Appearance And Odor: DARK BLACK-GREY GRANULAR POWDER; NO ODOR. Boiling Point: NONE Melting Point: NONE Vapor Pressure (MM Hg/70 F): NONE Specific Gravity: 2.2 (H\*20=1) Solubility In Water: NEGLIGIBLE \_\_\_\_\_ Fire and Explosion Hazard Data \_\_\_\_\_ Flash Point: NONE

Lower Explosive Limit: NONE

## SUPERIOR GRAPHITE -- TUBE-O-LUBE

Upper Explosive Limit: NONE Extinguishing Media: CO\*2, DRY CHEMICAL, FOAM. Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). Unusual Fire And Expl Hazrds: UNKNOWN. \_\_\_\_\_ Reactivity Data \_\_\_\_\_ Stability: YES Cond To Avoid (Stability): NONE Materials To Avoid: NONE Hazardous Decomp Products: UNKNOWN Hazardous Poly Occur: NO Conditions To Avoid (Poly): NOT RELEVANT \_\_\_\_\_ Health Hazard Data \_\_\_\_\_ LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry - Inhalation: YES Route Of Entry - Skin: NO Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: CASES OF PULMONARY FIBROSIS AND EMPHYSEMA HAVE RESULTED FROM PROLONGED INHALATION OF GRAPHITE DUST. Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: NOT RELEVANT Signs/Symptoms Of Overexp: POSSIBLY ALLERGENIC. MINOR IRRITATION TO EYES OR NASAL PASSAGES. Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER. Emergency/First Aid Proc: INHAL: REMOVE FROM AREA. SKIN: WASH HANDS/ SKIN WITH SOAP AND WATER. INGEST: DRINK WARM MILK OR WATER. EYES: FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. \_\_\_\_\_ Precautions for Safe Handling and Use \_\_\_\_\_ Steps If Matl Released/Spill: SWEEP UP/VACUUM. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. Waste Disposal Method: DISPOSE OF I/A/W LOCAL, STATE AND FEDERAL REGULATIONS. Precautions-Handling/Storing: NONE Other Precautions: NONE \_\_\_\_\_\_ Control Measures \_\_\_\_\_ Respiratory Protection: USE NIOSH/MSHA APPROVED DUST MASKS. Ventilation: LOCAL EXHAUST: USE AMBIENT AMOUNT TO KEEP DUST BELOW TLV. MECHANICAL (GENERAL): SAME AS FOR LOCAL EXHAUST. Protective Gloves: RUBBER GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES (FP N). Other Protective Equipment: WEAR OLD CLOTHING AND VENTILATE WORK AREA WITH DUST COLLECTING EQUIPMENT. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER. \_\_\_\_\_ Transportation Data \_\_\_\_\_ Trans Data Review Date: 92288 DOT PSN Code: ZZZ DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

## SUPERIOR GRAPHITE -- TUBE-O-LUBE

IMO PSN Code: ZZZ IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION IATA PSN Code: ZZZ IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION AFI PSN Code: ZZZ AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION Additional Trans Data: NOT REGULATED FOR TRANSPORTATION \_\_\_\_\_ Disposal Data \_\_\_\_\_ Label Data \_\_\_\_\_ Label Required: YES Technical Review Date: 30JUL92 Label Status: G Common Name: TUBE-O-LUBE Chronic Hazard: YES Signal Word: CAUTION! Acute Health Hazard-Slight: X Contact Hazard-Slight: X Fire Hazard-None: X Reactivity Hazard-None: X Special Hazard Precautions: ACUTE: MAY CAUSE MINOR IRRITATION TO EYES OR NASAL PASSAGES. CHRONIC: PROLONGED INHALATION OF GRAPHITE DUST MAY CAUSE PULMONARY FIBROSIS AND EMPHYSEMA. Protect Eve: Y Protect Skin: Y Protect Respiratory: Y Label Name: SUPERIOR GRAPHITE CO Label Street: 120 SOUTH RIVERSIDE PLAZA Label City: CHICAGO Label State: IL Label Zip Code: 60606 Label Country: US Label Emergency Number: 312-559-2999; 708-499-1883



## Revision Date 27-Jan-2012

1. CHEMICAL PRODUCT AND COMPANY INFORMATION				
Product code Product name Recommended Use	DL2990 TUNDRA Cleaner			
Supplier	Drummond American A Lawson Products Company 600 Corporate Woods Parkway Vernon Hills, IL 60061 (847) 913-9313			
Emergency telephone number	(888) 426-4851			

## 2. HAZARDS IDENTIFICATION

Emergency Overview Harmful or fatal if swallowed. Irritant.

#### Aggravated Medical Conditions Dermatitis.

Principal Routes of Exposure Eyes. Skin. Ingestion.

#### Potential health effects

Eyes	Irritation.
Skin	Skin Irritation.
Inhalation	Nausea. Vomiting. Central nervous system effects. Irregular eye movement. Convulsions. Extreme overexposure may cause. Cardiac abnormalities. Pulmonary edema. Death.
Ingestion	Nausea. Pain. Vomiting. Central nervous system effects. Irregular eve movement. convulsions.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

activity. Death. Pulmonary edema.

Chemical Name	CAS-No	Weight %
Ethylene glycol	107-21-1	30-60
EDTA	64-02-8	1-5
Ethanolamine	141-43-5	1-5
Nonylphenol Ethoxylate	9016-45-9	1-5
Water	7732-18-5	40-60

## 4. FIRST AID MEASURES

Eye contact

Flush with plenty of water for at least 15 minutes. Seek medical attention.

Extreme overexposure may cause. Irregular cardiac

	Wash area thoroughly with soap and water. Seek			
III	medical attention if irritation persists.			
	Contact physician or poison control center immediately. Drink 1 or 2 glasses of water.			
	Remove to fresh air. Provide oxygen or artificial respiration if necessary. Call a physician.			
5. FIR	E FIGHTING MEASURES			
Flash point °C	Not Applicable			
Flash point °F	Not Applicable			
Method	No information available			
	No information available			
Autoignition temperatu				
Autoignition temperatu Autoignition temperatu	re °C No data available			
Autoignition temperatu	re °C No data available re °F No data available			
•	re °C No data available re °F No data available			

#### Suitable extinguishing media

Water spray. Water fog. Dry chemical powder. Carbon dioxide (CO2). Foam.

#### Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

#### **Special Fire-Fighting Procedures**

Do not enter any enclosed or confined fire space without proper protective equipment .

## Sensitivity to shock

No information available.

#### Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

#### Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Shut off source of leak if safe to do so. Dike or dam large spills. Remove with vacuum trucks or pump to storage vessel. Soak up excess with absorbent material. Reclaim into containers for reuse, recycle, or proper disposal.

## 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Thoroughly wash hands and exposed skin after handling. Do not ingest.

#### Storage

Keep out of the reach of children.

## Product name TUNDRA

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ethylene glycol	-	-	-	-
Water	-	-	-	-
Nonylphenol Ethoxylate	-	-	-	-
Ethanolamine	3 ppm 6 mg/m <sup>3</sup>	-	3 ppm	6 ppm
EDTA	-	-	-	-

#### Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area.

#### Hygiene measures

General industrial hygiene practice.

#### **Respiratory protection**

Use NIOSH approved respirator if TLV limit is exceeded. Wear a NIOSH approved organic vapor/mist respirator.

#### Hand Protection

Rubber gloves. PVC gloves.

#### **Eye protection** Safety glasses. Goggles.

Skin and body protection Impervious clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Color Odor **Odor Threshold** pН Specific Gravity Vapor pressure Vapor density Evaporation Rate Water solubility **VOC Content Partition Coefficient** (n-octanol/water) Boiling point/range °C Boiling point/range °F Melting point/range °C Melting point/range °F Flash point °C Flash point °F

Liquid Blue None No information available 11.9 1.1 No data available No data available 1 (H2O=1) Soluble in water 1.5 No data available 100 212 -42.8 -45 Not Applicable

## **10. STABILITY AND REACTIVITY**

Not Applicable

Stability Stable.

#### Conditions to avoid

Avoid mixing with any other cleaning product.

#### Incompatability

Strong oxidizers. Strong acids. Chlorine bleach. Chlorinated detergents or sanitizers.

#### **Hazardous Decomposition Products**

Carbon oxides. Other substances.

#### Polymerization

No information available.

## **11. TOXICOLOGICAL INFORMATION**

#### **Component Information**

Chemical Name	LD50 (oral,rat )	LD50 (dermal ,rat/rab bit)	LC50 (inhalation,rat)
Ethylene glycol 107-21-1	4000 mg/kg	9530 μL/kg	-
Water 7732-18-5	90 mL/kg	-	-
Nonylphenol Ethoxylate 9016-45-9	1310 mg/kg	2 mL/kg	-
Ethanolamine 141-43-5	1720 mg/kg	1 mL/kg 1025 mg/kg	-
EDTA 64-02-8	10 g/kg	-	-

#### Synergistic Products

None known

Potential	health	effects	

**Carcinogenic effects** 

Sensitization	None known
Chronic toxicity	None known
Mutagenic effects	None known
Teratogenic effects	None known
Reproductive toxicity	None known
Target Organ Effects	See Section 2

See table below

Chemical Name	ACGIH OEL - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	OSHA RTK Carcinoge ns
Ethylene glycol	A4	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethanolamine	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
EDTA	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## Product name TUNDRA

## **12. ECOLOGICAL INFORMATION**

#### Ethylene glycol

Microtox Data

Pseudomonas putida EC50=10000 mg/L (16 h) Photobacterium phosphoreum EC50=620 mg/L (30 min) Photobacterium phosphoreum EC50=620.0 mg/L (30 min) Water Flea Data Daphnia magna EC50=46300 mg/L (48 h)

Ethanolamine

## Microtox Data

Pseudomonas putida EC50=110 mg/L (17 h) Nitrosomonas EC50=12200 mg/L (2 h) Photobacterium phosphoreum EC50=13.7 mg/L (30 min) Water Flea Data Daphnia magna hEC50 48 (65 mg/L)

#### EDTA

Water Flea Data

Daphnia magna hEC50 24 (610 mg/L)

## **13. DISPOSAL CONSIDERATIONS**

### Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations.

## **14. TRANSPORTATION INFORMATION**

#### DOT

Not Regulated

#### TDG

Not Regulated

## 15. REGULATORY INFORMATION

#### US EPA SARA 313

 Chemical Name
 US EPA SARA 313 Emission Reporting

 Ethylene glycol
 Listed

#### **State Regulations**

Chemical Name		Pennsylvania	
	RTK	- RTK	Prop. 65
Ethylene glycol	Listed	Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed
Ethanolamine	Listed	Listed	Not Listed
EDTA	Not Listed	Not Listed	Not Listed

#### International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Ethylene glycol	Х	Х	-	Х

Water	Х	Х	-	Х
Nonylphenol Ethoxylate	-	Х	-	Х
Ethanolamine	Х	Х	-	Х
EDTA	Х	Х	-	Х

#### CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## **16. OTHER INFORMATION**

#### NFPA

Health - 2 Flammability - 0 Reactivity - 0

#### HMIS

Health - 2 Flammability - 0 Physical Hazard - 0

### Prepared By

C. McHugh, Regulatory Affairs Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.



2.

# **Material Safety Data Sheet**

## 1. PRODUCT AND COMPANY IDENTIFICATION

	PRODUCT NAME	TURTLE WAX RED RUBBING COMPOUND		
	PRODUCT CODE	T-230(C)		
	CHEMICAL FAMILY	Polishes and Cleaners		
	CHEMICAL NAME Mixture: water,		er, polishing agents, soap, additives	
	FORMULA	Mixture		
MANUFACTURER		EMERGENCY TELEPHONE NUMBERS		TELEPHONE NUMBERS
Turtle Wax, Inc. 625 Willowbrook Centre Parkway Willowbrook, IL 60527 Phone: 630-455-3700 Fax: 630-455-3868		ay	Transportation: CHEMTREC: 800-424-9300 Medical: Contact your local Poison Control Center	
POSITION/INFORMATION ON INGREDIENTS				
COMPONENT		CAS N	UMBER	CONCENTRATION (wt %)
White (White	Petroleum Oil Oil)	8042-4	47-5	1-3%

EXPOSURE LIMITS 8 hrs. TWA(pp	CARCINOGEN (OSHA,NPT,IARC)		
White Petroleum Oil (White Oil)	n/a∨	n/a∨	No

## 3. HAZARDS IDENTIFICATION

## POTENTIAL HEALTH EFFECTS

**INHALATION:** Repeated or excessive inhalation of vapor can cause irritation, dizziness, and nausea. No chronic effects known.

**INGESTION:** Causes digestive system upsets, dizziness, nausea, and may cause chemical pneumonia, which may be fatal, if sucked into lungs. No chronic effects known.

**SKIN CONTACT:** Repeated or excessive contact can cause moderate irritation, de-fatting or dermatitis. No chronic effects known.

**EYE CONTACT:** Causes irritation. No chronic effects known.

## 4. FIRST AID MEASURES

EYE: Flush with water for 15 minutes. Get medical attention if effects persist.

**SKIN:** Remove contaminated clothing. Wash effected areas thoroughly with soap and water. Launder clothing before re-use.

**INHALATION:** Remove to fresh air. Use artificial respiration and oxygen if needed.

**INGESTION:** Rinse mouth. Do not induce vomiting. Get prompt medical attention. Aspiration into lungs can cause chemical pneumonitis which may be fatal.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** (Seta CI. Cup): >200°F (>93°C) Explosive Limits: Lower: n/av Upper: n/av

EXTINGUISHING MEDIA: Water Spray, Alcohol Foam, Carbon Dioxide, Dry Chemical

**SPECIAL FIRE FIGHTING PROCEDURES:** Avoid flow of material to sewers. See Sec. 8 for personal protection.

## 6. ACCIDENTIAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** Remove all ignition sources. Provide good ventilation. Take up spills and put into closed containers. Avoid flow to sewers. Floors may be slippery. See Section 8 for other protective measures.

## 7. HANDLING AND STORAGE

**STORAGE TEMPERATURE (MIN./MAX.):** 32 ° F (0 ° C)/ 120° F (49 C)

SHELF LIFE: 7 years minimum when the original container is kept tightly closed and properly stored.

SPECIAL SENSITIVITY: None.

**HANDLING AND STORAGE PRECAUTIONS:** Store in cool and ventilated places, but avoid freezing. Keep containers closed.

## 8. <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

**EYE PROTECTION REQUIREMENTS:** Wear goggles. Have convenient eye wash stations.

**SKIN PROTECTION REQUIREMENTS:** Wear solvent resistant gloves and other clothing as needed to prevent exposure.

**RESPIRATOR/VENTILATION PROTECTION REQUIREMENTS:** Provide sufficient ventilation to avoid exposure levels above the established TLV.

**INGESTION PROTECTION REQUIREMENTS:** Avoid swallowing or sucking into lungs.

**EXPOSURE LIMITS:** Not established for product as whole.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: cream semi-hard paste

COLOR: dark reddish brown

**ODOR:** typical

**BOILING POINT:** n/av

## **MELT / FREEZE POINT** 100° - 110°F (38-43°C)

PH: 9.4 (1:1 with soft water)

**SOLUBILITY IN WATER:** Dispersible

SPECIFIC GRAVITY: 1.061

% NON-VOLATILE BY WEIGHT: 26.0%

VAPOR PRESSURE: n/av

VAPOR DENSITY: n/av

## 10. <u>REACTIVITY</u>

**STABILITY:** Stable

HAZARDOUS POLYMERIZATION: Does not occur.

**INCOMPATIBILITIES:** Strong oxidizers such as peroxides.

**DECOMPOSITION PRODUCTS:** When burned: CO<sub>2</sub>, CO, Hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE INHALATION:** Can cause irritation, dizziness, and nausea.

CHRONIC INHALATION: None known

ACUTE SKIN CONTACT: Can cause irritation, de-fatting, or dermatitis.

CHRONIC SKIN CONTACT:. None known

ACUTE EYE CONTACT: Causes irritation

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

**RCRA HAZARDOUS WASTE:** Is not a RCRA hazardous waste.

**WASTE DISPOSAL METHOD:** Dispose of product in accordance with all local, state and federal laws and regulations.

## 14. TRANSPORT INFORMATION

DOT INFORMATION:	Not regulated as a hazardous material.			
PROPER SHIPPING NAME:	None			
TECHNICAL SHIPPING NAME:	None	None		
HAZARD CLASS:	None			
UN NUMBER: None(Canada)	None			
PRODUCT RQ (lbs):	n/ap			
LABEL:	Non Bulk Bulk	None None		
PLACARD:	Non Bulk Bulk	None None		
FREIGHT CLASS BULK:	n/ap			
FREIGHT CLASS PACKAGE:	None			
PRODUCT LABEL	None			

## 15. REGULATORY INFORMATION

**TSCA STATUS:** All ingredients are commercially available and listed by manufacturer. All ingredients are listed under TSCA.

Fire	9	No	
	active	No	
	active Iden Release of Pressure	No	
Rea	active	No	
Fire	9	No	
Chr	onic Health	No	
	311/312 ATEGORIES Ite Health	Yes	
	02 EXTREMELY JS SUBSTANCES	None	
SARA TITLE III:			
CERCLA REPORT	ABLE QUANTITY:	None	

**CANADIAN STATUS:** All materials contained in this product are listed on the Canadian Domestic Substances List. Consult Turtle Wax, Inc. regarding status of ingredients.

**EUROPEAN UNION:** All materials contained in this product are listed on EINECS.

## STATE REGULATORY INFORMATION

16.

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT/ CAS NUMBER None	<u>CONCENTRATION</u>	STATE CODE
OTHER INFORMATION		
HMIS CLASSIFICATION	Health	1
	Flammabilit	y 1
	Reactivity	0
	PPI	А
NFPA RATING	Health	1
	Fire	1
	Reactivity	0
	Special	None
REASON FOR ISSUE	Revised to A	ANSI format
PREPARED BY	James P. H	eidel
TITLE	Technical D	irector, R&D
APPROVAL DATE	September	10, 2007
SUPERCEDES DATE	March 8, 20	07
<b>REVISION NUMBER</b>	A - 1	

This information is to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.

NFPA & HMIS Rating

Red

Flammability

White

Special

N/A

Yellow

Reactivity

0

Blue

Health

1

Section 1: Product and Company Identification

COMPANY: Jenny Products, Inc. 850 North Pleasant Avenue Somerset, PA 15501 Telephone Information: 1-814-445-3400

Product Code......ES4, ESQ, ESG, ES4C, ESQC, ESGC Product Label Name......Ultimate Blue<sup>®</sup> Synthetic Compressor Pump Oil - ISO–100 Product Use......Lubricating Oil

Section 2: Composition/Information on Ingredients

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies.

\*See Section 8 for exposure limits.

Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.

\*See Section 11 for toxicological information.

## Section 4: First Aid Measures

- EYE: Flush with water for 15-20 minutes. Seek medical attention if irritation develops.
- SKIN: Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.
- INHALATION: Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.
- INGESTION: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. If vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

Section 5: Fire Fighting Measures

FLAMMABILITY PROPERTIES:	Flash Point	507°F(264°C)
	Method	COC ASTM D-92
	LFL/UFL	Not Determined
	Auto-ignition Temperatu	ureNot Determined

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, and alcohol foam.

FIREFIGHTING EQUIPMENT: Full bunker gear recommended including a positive pressure self-contained breathing apparatus.

## Section 6: Accidental Release Measures

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

## Section 7: Handling and Storage

HANDLING: Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

STORAGE: Keep away from heat or flame.

## Section 8: Exposure Controls/Personal Protection

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY: Use a NIOSH approved respirator when necessary.

SKIN: Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

EYE: Use splash goggles or face shield where splashing is expected or can occur.

## EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m<sup>3</sup> is suggested for oil mist.

## Section 9: Physical and Chemical Properties

Physical State	Liquid
Boiling Point	Not Determined
	Not Determined
	Negligible
	Not Determined
	Negligible
Density, lb./gal	
Volatility (Volume)	Negligible
VOC	Unknown
рН	Essentially Neutral
Coefficient of Water/Oil Distribution	onNot Determined
Odor	Mild, Bland, Hydrocarbon Odor
	Not Determined
Appearance	Light Blue Transparent Colored Liquid
Viscosity, cSt @ 100°C	
Viscosity, cSt @ 40°C	

Ultimate Blue<sup>®</sup> Compressor Pump Oil

## Section 10: Stability and Reactivity

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with strong oxidants.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

## Section 11: Toxicological Information

## ACUTE EXPOSURE

Eye Irritation:	Moderate to strong eye irritation. Based on data from components or similar
	material.

- Skin Irritation:Not expected to be a primary skin irritant. Based on data from components or<br/>similar material. Prolonged or repeated skin contact as from clothing wet with<br/>material may cause dermatitis. Symptoms may include redness, edema, drying,<br/>defatting, and cracking of the skin.
- Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
- CHRONIC EXPOSURE Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.
  - Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.
  - Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.
  - Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.
  - Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

## ADDITIONAL INFORMATION

Exposure Limits: Under conditions, which may generate mists, observe the OSHA PEL of 5 mg per cubic meter.

Ultimate Blue<sup>®</sup> Compressor Pump Oil

## Section 12: Ecological Information

No data available on the adverse effects of this product on the environment.

## Section 13: Disposal Considerations

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

## Section 14: Transport Information

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

## Section 15: Regulatory Information

## U.S. Federal Regulations

OSHA Table Z	Synthetic Base Stock (mist)
TSCA	Not Applicable
CERCLA 40 CFR 302.4	Not Applicable
SARA Title III	
Section 302 Extremely Hazardous	Not Applicable
Section 311/312	
Fire Hazard	
Reactive Hazard	
Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	No
Section 313 Toxic Chemical	Not Applicable

## U.S. State Regulations

California (Prop 65)

Does not contain chemicals known to the state of California to cause cancer.

## International Regulations

WHMIS ..... All components listed

## Section 16: Other Information

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued. We makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and we shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with our interpretation of the available data.



The Procter & Gamble Company P&G Household Care Fabric & Home Care Innovation Center 5299 Spring Grove Avenue Cincinnati, OH 45217-1087

# **MATERIAL SAFETY DATA SHEET**

MSDS #: RQ1309635 / RQ1310079 Supersedes: RQ1212667 Issue Date: 01/29/2014 Issue Date: 02/25/2013

**Finished Product** 

## **SECTION I - PRODUCT IDENTIFICATION**

Identity: Liquid Hand Dishwashing Detergents Brands: GAIN Ultra Gain Original Fresh [96285659], Ultra Gain Apple Berry Twist [96264781], Ultra Gain Spring Lavender [96285595], Ultra Gain Island Fresh [96285663], Ultra Gain Bleach Alternative Honey Berry Hula [96285668], Ultra Gain Lemon Zest Dishwashing Liquid/Antibacterial Hand Soap [96268213]), GAIN Ultra Hawaiian Aloha [96390954]

**P&G Telephone Number**: 1-800-253-2753 or call Local Poison Control Center or your physician.

## SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

Potential Environmental Effects: (See Section 12 for more information)

## SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable surfactants and **no phosphate**. For Gain Bleach Alternative, ingredients listed on the product label are: biodegradable surfactants, enzymes, and **no phosphate**. For Gain Lemon Zest Antibacterial Hand Soap, active ingredient is triclosan at 0.1%. Inactive ingredients for Gain Antibacterial Hand Soap are listed in the Drug Facts box on back label.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition Range	LD50/LC50
Ethyl alcohol	Ethanol	64-17-5	0.1-1%	LD50(oral, rat) – 7.06 g/kg

## SECTION IV – FIRST AID INFORMATION

## First Aid Procedures:

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A

**Other**: Consumer product package has the following precautionary statement on the back label: "For external use only. Keep out of the reach of children. If Dawn gets in eyes, rinse thoroughly with water. If swallowed, drink a glass of water to dilute."

## SECTION V - FIRE FIGHTING INFORMATION

**Flammable Properties:** The liquid hand dishwashing detergents have a flashpoint of 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). However, the detergents do **not** sustain combustion according to ASTM D4206.

Flammable Properties:

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/A

Hazardous Combustion Products: N/A

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

## **Extinguishing Media**:

Suitable:  $CO_2$ , water or dry chemical may be used.

Unsuitable: N/K

## Protection of Firefighters:

Specific Hazards Arising from the Material: None.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer - First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

**Steps To Be Taken in Case Material is Released or Spilled**: Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

## SECTION VII – HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** No special precautions necessary. **Precautions To B e Taken in Storage:** No special precautions necessary.

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Exposure Guidelines: N/A

**Engineering Controls:** N/A

**Personal Protective Equipment (PPE):** N/A

Eye/Face Protection: None required with normal household use.

Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin Protection: None required with normal household use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Gain Hand Dishwashing Liquid and Antibacterial Hand Soap

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (color, physical form, shape):</b> Clear, opaque or colored liquids.	<b>Flash Point (Method Used)</b> : 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup) but do <b>not</b> sustain combustion according to ASTM D4206.
Odor: Perfumed	Reserve Alkalinity: N/A
Odor Threshold: N/A	Solubility in Water: Complete
Physical State: Liquid hand dishwashing solution	Decomposition Temperature: N/K
Vapor Pressure (mm Hg): N/K	Evaporation Rate (nBuOAc=1): N/K
Vapor Density (Air=1): N/K	Specific Gravity/Density: ca. 1
Boiling Point: N/K	<b>Melting/Freezing Point:</b> ~ 30 °F (-1.1°C)
Partition Coefficient (n-octanol/water): N/K	<b>pH (10% solution):</b> 9
Volatile Organic Compound (VOC): Not applicable -	Product not regulated for VOC Content at State or Federal

level

## SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable Conditions to Avoid: None known Incompatible Materials: None Hazardous Decomposition Products: None known Possibility of Hazardous Reactions: None known

## SECTION XI - TOXICOLOGICAL INFORMATION

Liquid hand dishwashing detergents have a relatively low order of toxicity, may cause transient irritation and are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic. NTP: No

**OSHA:** No

IARC: No

## SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable.

## SECTION XIII - DISPOSAL CONSIDERATIONS

# Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS

*Non Household Setting*: Products covered by this MSDS, in their original form, when disposed as waste, are considered **non hazardous waste** according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

California Hazardous Waste: Not hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

*Household Use:* Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recyle where facilities exist.

## SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are not regulated for transportation.

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

## Marine/Water Transport (IMDG): Not regulated

## SECTION XV - REGULATORY INFORMATION

## **United States**

All intentionally-added components of this product are listed on the US TSCA Inventory. This product is not subject to warning labeling under California Proposition 65. EPA Reg. No.: Not Applicable

# This product contains the following SARA 313/302/304/311/312 chemicals: None

## This product contains the following CERCLA chemicals:

Chemical Name	CAS Number	Max Range in Product (%)
Ethanol	64-17-5	1.0%

## State Right-to-Know:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Max	State				
		Level	IL	MA	NJ	PA	RI
Ethanol	64-17-5	1.0 %	Х	Х	Х	Х	Х

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance

## Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

## SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
_	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT
*N/A Not Applicable	*N	I/K Not Known	

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER**: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

UltraPRO Products Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 09/29/2015 Supersedes: 09/01/2011 Version: 1.0

SEC	TION 1: Identification of	the substance/mixture and of the company/undertaking	
1.1.	Product identifier		
	ct name	: UltraPro Premium Ice Melter with Instaheat	
Produ	ct form	: Mixture	
1.2.	Relevant identified uses of the substance or mixture and uses advised against		
Use of	the substance/mixture	: Ice Melter/De-Icer	
1.3.	Details of the supplier of t	he safety data sheet	
PO Bo Plums	RO Products ox 195 teadville, PA 18949 57-2839		
1.4.	Emergency telephone nun	nber	
Emerg	jency number	: 215-857-2839	
SEC	TION 2: Hazards identifi	cation	
2.1.	Classification of the subst	ance or mixture	
GHS-	JS classification		
2.2.	Label elements		
GHS-	JS labelling		
No lab	elling applicable		
2.3.	Other hazards		
No additional information available			
2.4.	Unknown acute toxicity (GHS-US)		
No da	ta available		
SEC	TION 3: Composition/inf	ormation on ingredients	
3.1.	Substance		

## Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS Classification
Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		100	
Sodium chloride	(CAS No) 7647-14-5	Proprietary	Not classified
Calcium chloride	(CAS No) 10043-52-4	Proprietary	Acute Oral Toxicity 4, Eye Irritant 2A
Potassium chloride	(CAS No) 7447-40-7	Proprietary	Not classified
Acetic acid, calcium magnesium salt	(CAS No) 76123-46-1	Proprietary	Not classified
Potassium acetate	(CAS No) 127-08-2	Proprietary	Not classified
Magnesium chloride, hexahydrate	(CAS No) 7791-18-6	Proprietary	Not classified

## **SECTION 4: First aid measures**

4.1.	Description of first aid measures		
First-ai	d measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.	
First-ai	d measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.	
First-ai	d measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for least 15 minutes.	r at
First-ai	d measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.	
First-aid measures after ingestion		: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poiso control center or medical professional. Get medical attention if you feel unwell.	n
4.2.	Most important symptoms and effe	s, both acute and delayed	
Sympto	oms/injuries after inhalation	: May cause respiratory irritation.	

#### 09/29/2015 UltraPro Premium Ice Melter with Instaheat

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after skin contact	: May cause skin irritation.	
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.	
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.	
4.3. Indication of any immediate medic	Indication of any immediate medical attention and special treatment needed	

No additional information available.

SECTION 5: Firefighting measure	s	
5.1. Extinguishing media		
Suitable extinguishing media	: Dry chemical. Foam. Water spray. Sand.	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the	Special hazards arising from the substance or mixture	
Fire hazard	: No data to indicate that product is flammable.	
Explosion hazard	: Product is not explosive.	
Reactivity	: Product is hygroscopic and may give off heat while dissolving.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
General measures		: Spill should be handled by trained clean-up crews properly equipped with respiratory	

		equipment and full chemical protective gear (see Section 8). Evacuate area. Ventilate area. Keep upwind.
6.1.1.	For non-emergency personnel	
Protect	ive equipment	: Wear Protective equipment as described in Section 8.
Emerge	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protect	ive equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
6.2.	Environmental precautions	
Avoid r	elease to the environment. Prevent er	try to sewers and public waters.
6.3.	Methods and material for contain	iment and cleaning up
For cor	ntainment	: Contain and collect as any solid. Prevent entry to sewers and public waters.
Method	ls for cleaning up	: Sweep up loose material. Place residues in suitable, covered, and labeled container. Dispose of material in compliance with local, state, and federal regulations.
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
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SECTION 7: Handling and s	SECTION 7: Handling and storage			
7.1. Precautions for safe han	dling			
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. If diluting, the heat developed during diluting or dissolving is very high. Use cool water (less than 80°F) and add material to water.			
7.2. Conditions for safe stora	age, including any incompatibilities			
Storage conditions	: Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from atmospheric moisture.			
Incompatible materials	: Moisture. Refer to Section 10 on Incompatible Materials.			
Storage area	: Store in a well-ventilated place.			

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

#### Not applicable.

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2.	Exposure controls	
Approp	riate engineering controls	Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.
Person	al protective equipment	: Protective goggles. Gloves. Protective clothing.
Hand p	rotection	<ul> <li>Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.</li> </ul>
Eye pro	otection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin an	d body protection	: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respira	atory protection	: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	chemical properties		
Physical state	: Solid		
Appearance	: Green colored crystals with pellets and flakes.		
Color	: Green.		
Odor	: No data available		
Odor Threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Product is hygroscopic and may give off heat while dissolving.

Chemical stability 10.2.

Stable.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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#### 10.4. Conditions to avoid

Contact with certain metals.

#### 10.5. Incompatible materials

Sulfuric acid. Metals may corrode in aqueous calcium chloride solutions. Avoid contact with brass, steel, aluminum, ferrous metals or alloys thereof. Leather clothing and shoes may be damaged by calcium chloride. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Reacts slowly with (some) metals: release of highly flammable gases/vapours hydrogen. Product attracts moisture and gives off heat while dissolving. May produce toxic and noxious fumes under extreme fire conditions. Strong oxidizing agents will release chlorine. Liberates chlorine upon thermal decomposition.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposu	ire) : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity Based largely or completely on data for major components: this material is practically non-toxic Ecology - general to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species). 12.2. Persistence and degradability No additional information available **Bioaccumulative potential** 12.3. No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit. : Dispose of in accordance with local/national regulations. Do not allow the product to be Waste disposal recommendations released into the environment. **SECTION 14: Transport information**

In accordance with DOT Not hazardous for transport Additional information Other information

: No supplementary information available.

Safety Data Sheet

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#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### UltraPro Premium Ice Melter with Instaheat

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt None

SARA Section 311/312 Hazard Classes

### 15.2. International regulations

#### CANADA

No additional information available.

## 15.3. US State regulations

## **California Proposition 65**

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Revision date	: 09/29/2015
Other information	: Author: ZPT.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: W - Unusual reactivity with water. This indicates a potential hazard using water to fight a fire involving this material. When a compound is both water-reactive and an oxidizer, the W/bar symbol should go in this quadrant and the OX warning is placed immediately below the NFPA diamond.
HMIS III Rating	
Health	: 1
Flammability	: 0
Physical	: 0
Personal Protection	:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



# Section 1. Chemical product and company identification

Trade name	: ULTRA SAN
Product use	: Sanitiser.
Supplier	: Ecolab Food and Beverage
	5105 Tomken Road
	Mississauga ON L4W 2X5
	1-800-352-5326
Code	: 900043-37
Date of issue	25-April-2008
	EMERGENCY HEALTH INFORMATION: 1-800-328-0026
	Outside United States and Canada CALL 1-651-222-5352 (in USA)

# Section 2. Composition, information on ingredients

sodium hypochlorite

CAS number % by weight 7681-52-9 7 - 13

# Section 3. Hazards identification

# Section 4. First-aid measures

Eye contact	<ul> <li>In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.</li> </ul>
Skin Contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.
Ingestion	<ul> <li>If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.</li> </ul>



# Section 5. Fire-fighting measures

Auto-ignition temperature	: Not available.
Flash point	: > 100°C
Flammable limits	: Not available.
Hazardous thermal	: Decomposition products may include the following materials:
decomposition products	halogenated compounds metal oxide/oxides
Fire-fighting media and	: Use an extinguishing agent suitable for the surrounding fire.
instructions	Dyke area of fire to prevent runoff.
	In a fire or if heated, a pressure increase will occur and the container may burst.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

## Section 6. Accidental release measures

Personal Precautions	: Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilt material.
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	: If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

# Section 7. Handling and storage

Handling	<ul> <li>Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.</li> </ul>
Storage	<ul> <li>Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.</li> <li>Do not store above the following temperature: 40°C</li> </ul>

## Section 8. Exposure controls, personal protection

**Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. Personal protection : : Use chemical splash goggles. For continued or severe exposure wear a face shield over the Eyes goggles. Hands : Use chemical-resistant, impervious gloves. : Wear suitable protective clothing. Skin : Avoid breathing vapours, spray or mists. Respiratory <u>Name</u> **Exposure limits** 

chlorine

# ACGIH TLV (United States, 1/2006).

STEL: 2.9 mg/m<sup>3</sup> 15 minute(s). STEL: 1 ppm 15 minute(s).

TWA: 1.5 mg/m<sup>3</sup> 8 hour(s). TWA: 0.5 ppm 8 hour(s).

# Section 9. Physical and chemical properties

# Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.	
Conditions of instability	: Not available.	
Reactivity	: Extremely reactive or incompatible with acids. Slightly reactive to reactive with metals. Mixing this product with acid or ammonia releases chlorine gas.	
Hazardous Decomposition Products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

# Section 11. Toxicological information

## Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: Irritating to respiratory system.
Ingestion	: May cause burns to mouth, throat and stomach.

## Potential chronic health effects

ngredient name	ACG			
	<u></u>	<u>IH</u> <u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
lot applicable.				
lutagenic effects eratogenic effects eproductive effects ensitization to Product ynergistic products	: No known s : No known s	ignificant effects or cri ignificant effects or cr ignificant effects or cr ignificant effects or cr e.	itical hazards. itical hazards.	
oxicity data				
gredient name	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
lutagenic effects eratogenic effects eproductive effects ensitization to Product ynergistic products oxicologically) oxicity data	: No known s : No known s t : No known s : Not availab	ignificant effects or cr ignificant effects or cr ignificant effects or cr e.	itical hazards. itical hazards. itical hazards.	<u>Spec</u>

ULTRA SAN				Page: 4/5
sodium hypochlorite	LD50	Dermal	>10000 mg/kg	Rabbit
	LD50	Oral	5800 to 6800 mg/kg	Mouse
	LD50	Oral	5800 mg/kg	Mouse
	LD50	Oral	8200 mg/kg	Rat
	LC50	Inhalation	>10500 mg/m <sup>3</sup>	Rat
_				

Target organs

: Contains material which may cause damage to the following organs: upper respiratory tract.

# Section 12. Ecological information

<u>Ecotoxicity</u>			
Ingredient name	<u>Species</u>	<u>Period</u>	<u>Result</u>
sodium hypochlorite	Daphnia	48 hours	Acute EC50 1.57 mg/L
	Daphnia	48 hours	Acute EC50 0.17 mg/L
	Daphnia	48 hours	Acute EC50 0.04 mg/L
	Fish	96 hours	Acute LC50 0.09 mg/L
	Fish	96 hours	Acute LC50 0.059 mg/L
	Fish	96 hours	Acute LC50 0.2 mg/L

# Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

# Section 14. Transport information

	l		1	i.	
Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
TDG Classification	UN1791	HYPOCHLORITE SOLUTION	8	II	Explosive Limit and Limited Quantity Index 5 Passenger Carrying Road or Rail Index 5

## APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

# Section 15. Regulatory information

WHMIS : Class E: Corrosive material

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

# Section 16. Other information

Date of issue	: 25-April-2008.
Responsible name	: Regulatory Affairs
	1-800-352-5326
Date of previous issue	: 08-August-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



Material Name: ULTRABOND 4085

ID: SAH00268

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Material Name: ULTRABOND 4085 Product Use Sealer

## Manufacturer Information

USA and Puerto Rico MAPEI 1144 East Newport Center Drive

Deerfield Beach, FL 33442 Phone: 1-954-246-8888 Canada MAPEI 2900 Francis-Hughes Avenue Laval, QC H7L 3J5 Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers: (USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-631-996-6666

## \* \* \* Section 2 - Hazards Identification \* \* \*

## **Emergency Overview**

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Extremely flammable; material will readily ignite at normal temperatures. This product is irritating to the eyes.

## Hazard Statements

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR - VAPOR MAY CAUSE FLASH FIRE. IRRITANT. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. Irritating to eyes. Vapor accumulation can flash or explode when ignited. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

## Potential Health Effects: Eyes

This product is irritating to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

## Potential Health Effects: Skin

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

## Potential Health Effects: Ingestion

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Potential Health Effects: Inhalation

Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. This product is an asphyxiant gas which can cause unconsciousness/death if OXYGEN levels are sufficiently reduced.

## Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

## **Potential Environmental Effects**

No information available for the product.

HMIS Ratings: Health: 2 Fire: 3 Reactivity: 0 Pers. Prot.: Safety glasses, gloves, synthetic apron, vapor respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
110-54-3	Hexane	10-30
64742-49-0	Naphtha, petroleum, hydrotreated light	10-30

## Material Name: ULTRABOND 4085

## ID: SAH00268

108-88-3	Toluene	10-30
Proprietary	Elastomeric polymer	7-13
67-64-1	Acetone	7-13
78-93-3	Methyl ethyl ketone	7-13
Proprietary	Phenolic resin	3-7
1309-48-4	Magnesium oxide	0.5-1.5

## \* \* \* Section 4 - First Aid Measures \* \* \*

## First Aid: Eyes

Get medical attention or advice. In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes.

## First Aid: Skin

Get medical attention or advice. For skin contact flush with large amounts of water.

## **First Aid: Ingestion**

If the material is swallowed, get immediate medical attention or advice.

## First Aid: Inhalation

Get medical attention or advice. If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration.

## First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

## General Fire Hazards

See Section 9 for Flammability Properties.

Extremely dangerous fire and explosion hazard. Vapors may be ignited by flame, sparks or contact with any hot surface (light bulb or steam pipes) under normal atmospheric conditions. Forms explosive mixtures with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

## **Hazardous Combustion Products**

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## **Extinguishing Media**

Dry chemical (preferred), foam, water.

## **Fire Fighting Equipment/Instructions**

Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

## NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \* \* \* Section 6 - Accidental Release Measures '

## **Personal Precautions**

Eliminate ignition sources including sources of electrical, static or frictional sparks.

## **Containment Procedures**

Contain the discharged material.

## **Environmental Precautions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## **Clean-Up Procedures**

Attempt to reclaim the free product, if this is possible. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

## **Evacuation Procedures**

Isolate area. Keep unnecessary personnel away.

## **Special Procedures**

Wear appropriate protective equipment and clothing during clean-up.

## Material Name: ULTRABOND 4085

ID: SAH00268

## \*\*\* Section 7 - Handling and Storage \*\*\*

## **Handling Procedures**

Keep this product from heat, sparks, or open flame. Use only in well ventilated areas. Avoid breathing vapors or mists of this product. Avoid getting this material into contact with your skin and eyes. Keep out of the reach of children.

## **Storage Procedures**

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry, well-ventilated area. Keep the container tightly closed.

## Section 8 - Exposure Controls / Personal Protection \*\*\*

## A: Component Exposure Limits

\* \* \*

Hexane (110-	54-3)
ACGIH:	Skin - potential significant contribution to overall exposure by the cutaneous route
	50 ppm TWA
OSHA:	500 ppm TWA; 1800 mg/m3 TWA
NIOSH:	50 ppm TWA; 180 mg/m3 TWA
Alberta:	50 ppm TWA; 176 mg/m3 TWA
	Substance may be readily absorbed through intact skin
British Columbia:	20 ppm TWA
	Skin notation
Manitoba:	50 ppm TWA
New Brunswick:	50 ppm TWA; 176 mg/m3 TWA
NW Territories:	100 ppm TWA; 352 mg/m3 TWA
	125 ppm STEL; 440 mg/m3 STEL
Nova Scotia:	50 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
Nunavut:	100 ppm TWA; 352 mg/m3 TWA
	125 ppm STEL; 440 mg/m3 STEL
Ontario:	50 ppm TWAEV; 176 mg/m3 TWAEV
Quebec:	50 ppm TWAEV; 176 mg/m3 TWAEV
	Skin designation
Saskatchewan:	62.5 ppm STEL
	50 ppm TWA
Yukon:	125 ppm STEL; 450 mg/m3 STEL
	100 ppm TWA; 360 mg/m3 TWA

Material Name: ULTRABOND 4085

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## Toluene (108-88-3)

ACGIH:	20 ppm TWA
OSHA:	200 ppm TWA
	300 ppm Ceiling
NIOSH:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL
Alberta:	50 ppm TWA; 188 mg/m3 TWA
	Substance may be readily absorbed through intact skin
British Columbia:	Adverse reproductive effect
	20 ppm TWA
Manitoba:	20 ppm TWA
New Brunswick:	50 ppm TWA; 188 mg/m3 TWA
	Skin - potential for cutaneous absorption
NW Territories:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL
	Skin notation
Nova Scotia:	20 ppm TWA
Nunavut:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL
	Skin notation
Ontario:	20 ppm TWAEV
Quebec:	50 ppm TWAEV; 188 mg/m3 TWAEV
	Skin designation
Saskatchewan:	60 ppm STEL
	50 ppm TWA
Yukon:	Skin notation
	150 ppm STEL; 560 mg/m3 STEL
	100 ppm TWA; 375 mg/m3 TWA

## Acetone (67-64-1)

Acetone (67-6	)4-1 <i>)</i>
ACGIH:	750 ppm STEL
	500 ppm TWA
OSHA:	1000 ppm TWA; 2400 mg/m3 TWA
NIOSH:	250 ppm TWA; 590 mg/m3 TWA
Alberta:	500 ppm TWA; 1200 mg/m3 TWA
	750 ppm STEL; 1800 mg/m3 STEL
British Columbia:	250 ppm TWA
	500 ppm STEL
Manitoba:	500 ppm TWA
	750 ppm STEL
New Brunswick:	500 ppm TWA; 1188 mg/m3 TWA
	750 ppm STEL; 1782 mg/m3 STEL
NW Territories:	1000 ppm TWA; 2370 mg/m3 TWA
	1250 ppm STEL; 2970 mg/m3 STEL
Nova Scotia:	500 ppm TWA
	750 ppm STEL
Nunavut:	1000 ppm TWA; 2370 mg/m3 TWA
	1250 ppm STEL; 2970 mg/m3 STEL
Ontario:	500 ppm TWAEV
	750 ppm STEV
Quebec:	500 ppm TWAEV; 1190 mg/m3 TWAEV
	1000 ppm STEV; 2380 mg/m3 STEV
Saskatchewan:	750 ppm STEL
	500 ppm TWA
Yukon:	1250 ppm STEL; 3000 mg/m3 STEL
	1000 ppm TWA; 2400 mg/m3 TWA

## Material Name: ULTRABOND 4085

## Methyl ethyl ketone (78-93-3)

300 ppm STEL
200 ppm TWA
200 ppm TWA; 590 mg/m3 TWA
200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL
200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL
50 ppm TWA
100 ppm STEL
200 ppm TWA
300 ppm STEL
200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL
200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL
200 ppm TWA
300 ppm STEL
200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL
200 ppm TWAEV; 590 mg/m3 TWAEV
300 ppm STEV; 885 mg/m3 STEV
50 ppm TWAEV; 150 mg/m3 TWAEV
100 ppm STEV; 300 mg/m3 STEV
300 ppm STEL
200 ppm TWA
250 ppm STEL; 740 mg/m3 STEL
200 ppm TWA; 590 mg/m3 TWA

## Magnesium oxide (1309-48-4)

magnesian o	(ide (1503-40-4)
ACGIH:	10 mg/m3 TWA inhalable fraction
OSHA:	15 mg/m3 TWA fume, total particulate
Alberta:	10 mg/m3 TWA (fume)
British Columbia:	10 mg/m3 TWA Mg fume, inhalable; 3 mg/m3 TWA Mg respirable dust and fume
	10 mg/m3 STEL Mg respirable dust and fume
Manitoba:	10 mg/m3 TWA inhalable fraction
New Brunswick:	10 mg/m3 TWA fume
NW Territories:	10 mg/m3 TWA Mg fume
	20 mg/m3 STEL Mg fume
Nova Scotia:	10 mg/m3 TWA inhalable fraction
Nunavut:	10 mg/m3 TWA Mg fume
	20 mg/m3 STEL Mg fume
Ontario:	10 mg/m3 TWAEV inhalable
Quebec:	10 mg/m3 TWAEV Mg fume
Saskatchewan:	20 mg/m3 STEL (inhalable fraction)
	10 mg/m3 TWA (inhalable fraction)
Yukon:	10 mg/m3 STEL (Mg, fume)
	10 mg/m3 TWA (Mg, fume)

## **Engineering Controls**

Use general ventilation.

## PERSONAL PROTECTIVE EQUIPMENT

## Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

## Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

## Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. **Personal Protective Equipment: General** 

Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

Material Name: ULTRABOND 4085

## \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

Appearance:	Amber liquid	Odor:	Slight odor
Physical State:	Liquid	pH:	132°F - 232°F
Vapor Pressure:	N/A	Vapor Density:	Heavier than air
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	N/A	Specific Gravity:	N/A
Evaporation Rate:	Slower than ether	VOC:	631 g/L
Octanol/H2O Coeff.:	N/A	Flash Point:	<20°F
Flash Point Method:	CC	Upper Flammability Limit (UFL):	1%
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

## Chemical Stability

This is a stable material.

## **Chemical Stability: Conditions to Avoid**

Keep away from heat, sparks, or open flame. Eliminate sources of ignition.

## Incompatibility

This product may react with strong acids, bases and oxidizing agents.

## **Hazardous Decomposition**

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

## **Possibility of Hazardous Reactions**

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

## Acute Dose Effects

## A: General Product Information

No information available for the product.

## B: Component Analysis - LD50/LC50

## Hexane (110-54-3)

Inhalation LC50 Rat 48000 ppm 4 h; Oral LD50 Rat 25 g/kg; Dermal LD50 Rabbit 3000 mg/kg Naphtha, petroleum, hydrotreated light (64742-49-0)

Inhalation LC50 Rat 73680 ppm 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >3160 mg/kg Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

## Acetone (67-64-1)

## Oral LD50 Rat 5800 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse 32 g/m3 4 h; Oral LD50 Rat 2737 mg/kg; Dermal LD50 Rabbit 6480 mg/kg

## Carcinogenicity

## A: General Product Information

No information available for the product.

## **B: Component Carcinogenicity**

## Toluene (108-88-3)

101000	
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

## Material Safety Data Sheet

Material Name: ULTRABOND 4085

Acetone (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

#### Magnesium oxide (1309-48-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

#### Sensitization

No information available for the product.

## \*\*\* Section 12 - Ecological Information \*\*\*

#### Ecotoxicity

#### **A: General Product Information**

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

### Hexane (110-54-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	2.1-2.98 mg/L	[flow-through]
24 Hr EC50 Daphnia magna	>1000 mg/L	

#### Naphtha, petroleum, hydrotreated light (64742-49-0)

Test & Species		Conditions
96 Hr LC50 Chaetogammarus marinus	2.6 mg/L	

#### Toluene (108-88-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L	[flow-through] 1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L	[flow-through]
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L	[semi-static]
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L	[static]
96 Hr LC50 Oryzias latipes	54 mg/L	[static]
96 Hr LC50 Poecilia reticulata	28.2 mg/L	[semi-static]
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L	[static]
96 Hr EC50 Pseudokirchneriella	>433 mg/L	
subcapitata		
72 Hr EC50 Pseudokirchneriella	12.5 mg/L	[static]
subcapitata		
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L	[Static]
48 Hr EC50 Daphnia magna	11.5 mg/L	

#### Acetone (67-64-1)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	4.74-6.33 ml/L	
96 Hr LC50 Pimephales promelas	6210-8120 mg/L	[static]
96 Hr LC50 Lepomis macrochirus	8300 mg/L	
48 Hr EC50 Daphnia magna	10294 - 17704 mg/L	[Static]
48 Hr EC50 Daphnia magna	12600 - 12700 mg/L	

### Methyl ethyl ketone (78-93-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	3130-3320 mg/L	[flow-through]
48 Hr EC50 Daphnia magna	>520 mg/L	
48 Hr EC50 Daphnia magna	5091 mg/L	
48 Hr EC50 Daphnia magna	4025 - 6440 mg/L	[Static]

ID: SAH00268

## **Material Safety Data Sheet**

Material Name: ULTRABOND 4085

ID: SAH00268

## \* \* \* Section 13 - Disposal Considerations \* \* \*

### **US EPA Waste Number & Descriptions**

#### A: General Product Information

No information available for the product.

#### **B: Component Waste Numbers**

#### . Toluene (108-88-3)

RCRA: waste number U220

#### Acetone (67-64-1)

RCRA: waste number U002 (Ignitable waste)

#### Methyl ethyl ketone (78-93-3)

RCRA: waste number U159 (Ignitable waste, Toxic waste) 200.0 mg/L regulatory level

#### **Disposal Instructions**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \* \* \* Section 14 - Transportation Information \* \* \*

#### US DOT Information

Shipping Name: Adhesives

UN/NA #: UN1133 Hazard Class: 3 Packing Group: II

#### **IATA Information**

Shipping Name: Adhesives UN #: UN1133 Hazard Class: 3 Packing Group: II

#### **IMDG** Information

Shipping Name: Adhesives

UN #: UN1133 Hazard Class: 3 Packing Group: II

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### **A: General Product Information**

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

#### **B: Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Hexane (110-54-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 5000 lb final RQ; 2270 kg final RQ

#### Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 1000 lb final RQ; 454 kg final RQ

#### Acetone (67-64-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

#### Methyl ethyl ketone (78-93-3)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

## Material Safety Data Sheet

Material Name: ULTRABOND 4085

ID: SAH00268

#### **State Regulations**

#### **A: General Product Information**

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	Yes
Magnesium oxide	1309-48-4	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

## Additional Regulatory Information

#### **A: General Product Information**

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory. B: Component Analysis - Inventory

#### Component CAS # TSCA CAN EEC EINECS Hexane 110-54-3 Yes DSL Naphtha, petroleum, hydrotreated light 64742-49-0 EINECS DSL Yes Toluene 108-88-3 Yes DSL EINECS EINECS Acetone 67-64-1 Yes DSL Methyl ethyl ketone 78-93-3 Yes DSL EINECS Magnesium oxide 1309-48-4 DSL EINECS Yes

## \*\*\* Section 16 - Other Information \*\*\*

#### Reference

G1-2851-01

#### **Other Information**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

#### Key/Legend

NA = Not available or Not Applicable. BLV=Biological Limit Values TLV = Threshold Limit Value. NFPA = National Fire Protection Association. HMIS = Hazardous Material Information System. CFR = Code of Federal Regulations. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Contact: Product Safety Specialist Contact Phone: 1-954-246-8888

Contact Phone: 1-954-246-8888

End of Sheet SAH00268



## Ultrabond ECO<sup>™</sup> 185

## Material Safety Data Sheet (MSDS)

English Version on pages 2 and 3.

Fiche signalétique (MSDS) Version Française à la pages 4 et 5.

Hoja de Datos Material De seguridad (MSDS) La versión en Español en las páginas 6 y 7.

#### Product Name: Ultrabond ECO<sup>™</sup> 185

Product Description: Performance-Grade High-Tack Carpet Adhesive

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT CONTACT THE FOLLOWING NUMBERS:

EMERGENCY 24 HOUR NUMBER (USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

#### CONSUMER STATEMENT:

CAUTION - EYE IRRITANT. NON-TOXIC.

WORK AND HYGIENE PRACTICE:

Remove contaminated clothing immediately. Wash hands, after each use and before eating, drinking, or using toiletries. Minimize contact of product on skins.

C (See below.) 0 g/L
>212°F (>100°C)
(mmHg) 1,0
AIR=1) 1,10 - 1,20
(H20=1) 1,00 - 1,30
Point (F) N/E
e (Butyl Acetate=1) Same as water.
er Soluble
8,0 - 10,0
d Odor Beige paste. Slight odor of latex.

(VOC per CA South Coast Air Quality Management District, Rule 1168)

III - HAZARD ASSESSMENT				
Hazardous Components (specific chemical identity; common names):	OSHA (PEL)	ACGIH (TLV- TWA)	Other Limits Recommended	% Percent (Optional)
THIS PRODUCT CONTAINS NO HAZARDOUS INGREDI 1910.1200 OR SECTION 13 OF THE CANADIAN HAZAR			AZARD COMMUNICATION STANDAR	D - 29 CFR
For California (Proposition 65): This product contains no c	hemicals reportable	e under Propositio	n 65.	
All ingredients are listed within or exempted from US TSC/	A and Canadian DS	iL.		

(USA) - HMIS (Hazardous Materials Identification System) Rating: Health - 1 Fire - 0 Reactivity - 0 Protection - B "\*" = chronic effect (Canada) - WHMIS (Workplace Hazardous Materials Information System) Classifications: Not regulated under WHMIS.

IV - TRANSPORTATION		
By GROUND - USA and Puerto Rico (DOT):	By SEA (IMDG):	
Not Regulated	Not Regulated	
By GROUND - Canada (TDG):	By AIR (IATA):	
Not Regulated	Not Regulated	

#### V - FIRE AND EXPLOSION HAZARD DATA

 Flash Point:
 >212°F (>100°C)
 Lower Explosive Limit (%) N/E
 Upper Explosive Limit (%) N/E

 Unusual Fire and Explosion Hazards Some decomposition products may be harmful.
 Extinguishing Media:
 Will not burn except under extreme temperatures. Water spray, carbon dioxide, dry chemical or foam.
 Special Fire Fighting Procedures:

 Wear standard fire fighting gear with self-contained breathing apparatus.
 VI - REACTIVITY DATA
 Stability: Stable
 Conditions to Avoid: None known.

\_\_\_\_\_

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, and strong bases.

Hazard Decomposition of By-products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds. Polymerization: Will Not Occur Conditions to Avoid: None known.

#### **VII - HEALTH HAZARD DATA**

Routes of entry during normal usage: Inhalation? YES Skin? YES Ingestion? NO

#### **Health Hazards:**

Acute: No effects are suspected under normal professional use.

Chronic: None known.

IARC - NO Carcinogenicity: NTP - NO OSHA - NO

#### Signs and Symptoms of Overexposure:

No effects are suspected under normal professional use.

#### Medical Conditions That Can Be Aggravated by Exposure:

Allergies, skin and respiratory disorders. Product sensitivity.

#### **VIII - EMERGENCY AND FIRST AID PROCEDURE**

Eves: Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately. Skin: Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek

immediate medical attention.

Inhalation: Remove to fresh air if allowable concentrations of any of the hazardous ingredients are exceeded. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

#### **IX - PRECAUTIONS FOR SAFE HANDLING AND USE**

#### Steps to be taken if Material is Leaked or Spilled:

Wear protective equipment. Contain by diking with inert absorbent materials and put into an approved waste container.

Waste Disposal Method: Dispose in accordance to local environmental regulation.

#### Precautions to be taken during Handling and Storage:

Keep container closed when not in use. Store at 60-95°F (15-35°C) and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed.

Other Precautions: Avoid prolonged skins contact.

#### **X - CONTROL MEASURES**

#### **Respiratory Protection:**

If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator is required in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

Use in WELL VENTILATED areas only. Ventilation: Local Exhaust -Special -N/A

Mechanical -Use only intrinsically safe devices. Other -N/A

Eye Protection: Safety glasses or goggles as necessary to prevent eye contact.

Protective Gloves: Impervious. (Nitrile, rubber, or better)

**Other Protective Equipment:** As needed to minimize contact with skin.

N/A="Not Applicable" N/E="Not Established"

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. MAPEI assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

Lire MSDS complet avant l'utilisation de produit.

## Nom du produit: Ultrabond ECO™ 185

Description du produit: Adhésif à tapis à performance élevée et à pouvoir piégeant prolongé

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POUR TOUT PROBLÈME D'ORDRE CHIMIQUE AVEC DÉVERSEMENT, FUITE, INCENDIE, EXPLOSION, EXPOSITION OU ACCIDENT, COMPOSER LES NUMÉROS SUIVANTS :

URGENCE JOUR ET NUIT : (É.-U.) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

AVIS AUX CONSOMMATEURS :

AVERTISSEMENT - IRRITANT POUR LES YEUX. NON TOXIQUE.

#### **HYGIÈNE ET PRATIQUES AU TRAVAIL :**

Enlever immédiatement les vêtements souillés. Se laver les mains après chaque utilisation et avant de manger, de boire ou de se servir d'articles de toilette. Éviter autant que possible le contact du produit avec la peau.

I - RENSEIGNEMENTS GÉNÉRAUX		II - CARACTÉRISTIQUES PHYSIQUES				
FABRICANTE :		COV calculé (voir plus bas)	0 g/L			
<u>ÉU. et Porto Rico</u>	<u>Canada</u>	Point d'ébullition	>212°F (>100°C)			
MAPEI CORPORATION	MAPEI INC.	Pression de Vapeur (mmHg)	1,0			
1144 East Newport Center Drive	2900 Francis-Hughes Avenue	Densité de Vapeur (AIR=1)	1,10 - 1,20			
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravité Spécifique (H20=1)	1,00 - 1,30			
Ph: (954) 246-8888	Ph: (450) 662-1212	Point de fusion	N/E			
FICHE SIGNALÉTIQUE RÉDIGÉ	E PAR :	Rythme d'évaporation (acétate de	Celui de l'eau.			
Service des affaires réglementaire	es - MAPEI Amérique du Nord	butyle=1)				
DATE DE RÉVISION (YYYY/MM/	<b>DD):</b> 2005/07/15	Solubilité dans l'eau	Soluble			
Télécharger la fiche signalétique l	a plus récente de :	pH (pâte/liquide)	8,0 - 10,0			
www.mapei.com		Aspect et odeur	Pâte beige. Odeur légère de latex.			

VOC calculé par (la Règle(l'Autorité) 1168, Zone de Qualité de l'air de Côte du (COV selon le règlement 1168, CA South Coast Air Quality Management District)

III - ÉVALUATION DES DANGERS					
Ingrédients dangereux (désignation chimique spécifique; appellations courantes)	OSHA (PEL)	ACGIH (TLV TWA)		recommandées	Pourcentage (optionnel)
CE PRODUIT NE CONTIENT PAS D'INGRÉDIENTS DANG OSHA 29 CFR 1910.1200 NI DANS LA SECTION 13 DE LA	-			-	AINE
Pour la Californie (Proposition 65) - Ce produit ne contient a Tous les ingrédients sont répertoriés aux ÉU., sous l'inven	•	•		en vertu de la Prop	oosition 65.
(ÉU.) – Évaluations HMIS (Hazardous Materials Identificati	,			0 Protection - B	"*"=effet chroniquet
(Canada) – Classification SIMDUT (Système d'information s	sur les matières o	dangereuses util	isées au travail) : No	on réglementé selo	n le SIMDUT.
IV - TRANSPORT					
Par VOIE DE TERRE – ÉU. et Porto Rico (DOT) :		Par VOIE D'EA	AU (IMDG) :		
Non réglementé.		Non réglement	é.		
Par VOIE DE TERRE – Canada (TMD) :		Par VOIE DES	AIRS (IATA) :		
Non réglementé.		Non réglement	é.		
V - DONNÉES SUR LES RISQUES D'INCENDIE ET	D'EXPLOSIOI	N			
Point d'éclair : >212°F (>100°C) Limite infé	rieure d'explosiv	ité (%) - N/E	Limite supérieure	d'explosivité (%)	- N/E

Dangers inhabituels d'incendie et d'explosion - Certains produits issus de la décomposition peuvent être nocifs.

#### Agent extincteur :

Le produit ne brûlera pas tant que la teneur en eau ne sera entièrement évaporée. Eau pulvérisée, dioxyde de carbone, poudre chimique ou mousse. Règles à observer dans la lutte contre les feux spéciaux :

Porter les accessoires et les vêtements standards de lutte contre l'incendie, incluant un appareil respiratoire.

\_\_\_\_\_

Stabilité : Stable

Conditions à éviter : Aucune connue

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Incompatibilité (matériaux à éviter) : Oxydants forts, acides forts et bases fortes.

Risques de décomposition des sous-produits : Monoxyde de carbone, dioxyde de carbone, oxydes d'azote et autres composés organiques non identifiés.

**Polymérisation:** Ne se produira pas. **Conditions d'Éviter:** Aucune connue.

VII - DONNÉES SUR LES RISQUES P	OUR LA SANTÉ		
Modes d'absorption durant un usage normal	: Par inhalation? OUI	Par la peau? OUI	Par ingestion? NON
Risques pour la santé :			
Effets aigus : Aucun risque suspecté en cas	d'ingestion par suite d'expos	ition professionnelle.	
Effets chroniques : Aucune connue.			
Cancérogénicité : NTP - NON CIRC- N	ION OSHA - NON		
Signes et symptômes de surexposition :			
Aucun risque suspecté en cas d'ingestion pa	r suite d'exposition profession	nnelle.	
Conditions médicales susceptibles d'être	aggravées par une exposit	ion au produit :	
Allergies, problèmes cutanés ou respiratoire	s. Sensibilité au produit.		

#### **VIII - URGENCE ET PREMIERS SOINS**

Yeux : Rincer à l'eau froide pendant 15 minutes en tenant les paupières ouvertes. Si l'irritation persiste, consulter immédiatement un médecin.

Peau : Éviter tout contact avec la peau. Enlever les vêtements souillés. Rincer à fond à l'eau savonneuse la zone éclaboussée. Si l'irritation persiste, consulter un médecin immédiatement.

Inhalation : Sortir au grand air si la concentration admissible des produits dangereux est dépassée. En cas d'arrêt respiratoire, une ou des personnes formées devraient commencer la respiration artificielle. Appeler immédiatement un médecin.

Ingestion : Ne pas faire vomir. Ne jamais rien administrer oralement à une personne inconsciente. Appeler immédiatement un médecin.

#### IX - PRÉCAUTIONS EN VUE D'UNE MANUTENTION ET D'UN USAGE SÉCURITAIRES

Mesures à prendre en cas de fuite ou de déversement :

En se servant des accessoires de protection appropriés, placer le produit déversé dans un fût de stockage en poly ou dans tout autre contenant exigé par les éliminateurs locaux, puis entreposer dans un endroit sécuritaire, jusqu'à ce que le produit soit évacué selon la réglementation en vigueur.

Méthode d'évacuation des déchets : Évacuer les déchets selon les réglementations fédérale, provinciale (ou de l'État) et municipale en vigueur.

#### Précautions lors de la manutention et de l'entreposage :

Refermer le contenant lorsqu'on ne se sert pas du produit. Entreposer à 15 – 35°C (60 - 95°F) et à l'abri du soleil. Lorsque le contenant est ouvert, assurer une ventilation convenable afin d'éviter d'inhaler les vapeurs du produit.

Précaution additionnelle : Éviter un contact prolongé du produit avec la peau.

#### X - MESURES DE CONTRÔLE

#### Protection des voies respiratoires :

Dans l'éventualité d'un dépassement des limites d'exposition permises et en l'absence de contrôles environnementaux appropriés, porter un appareil respiratoire à adduction d'air approuvé par le NIOSH/MSHA. Il faut mettre en œuvre des mesures d'ingénierie et des mesures administratives de contrôle dans le but de réduire l'exposition au produit.

Ventilation:	Locale -	N'employer que dans des endroits BIEN AÉRÉS.	Mécanique -	N'utiliser que des appareils intrinsèquement sécuritaires.
	Spéciale -	S/O	Autre -	S/O

Protection des yeux : Porter des lunettes de sécurité ou anti-éclaboussures afin de prévenir le contact avec les yeux.

Gants de protection : Imperméables (nitrile, caoutchouc ou mieux).

Autres accessoires ou vêtements de protection : Jugé nécessaire afin de réduire le contact avec la peau.

S/O="Sans objet" N/D="Non déterminé"

L'information présentée dans les présentes s'appuie sur des données jugées exactes. Nous ne fournissons, toutefois, aucune garantie, expresse ou implicite, au chapitre de l'exactitude de ces données ni des résultats qui en découlent. MAPEI n'assume aucune responsabilité en matière de blessures ni de dommages matériels, imputables au produit et subis par les acquéreurs, les utilisateurs ou de tierces parties. Les acquéreurs et les utilisateurs assumeront tous les risques reliés à l'utilisation du produit.

## MAPEI® Hoja de Datos Material De seguridad (MSDS) - Norteamérica Lea MSDS completo antes de utilizar el producto.

Nombre de producto: Ultrabond ECO<sup>™</sup> 185

Descripción de producto: Adhesivo de alta adherencia y rendimiento para alfombras

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EN CASO DE UNA EMERGENCIA QUÍMICA QUE IMPLICA UN DERRAME, ESCAPE, FUEGO, EXPOSICIÓN O ACCIDENTE PONGASE EN CONTACTO CON LOS SIGUIENTES NÚMEROS:

EMERGENCIA NÚMERO de 24 HORAS: (EE.UU.) CHEMTREC 1-800-424-9300 (EI Canadá) CANUTEC 1-613-996-666

COMISIONA DECLARACIÓN PARA EL CONSUMIDOR:

PRECAUCIÓN - IRRITANTE DE OJOS. NO TÓXICO.

#### PRÁCTICAS DE TRABAJO É HIGIENE:

Quite la ropa contaminada inmediatamente. Lavar las manos, después de cada uso y antes de comer, beber, o de usar productos personales. Minimice el contacto del producto en la piel.

I - INFORMACIÓN GENERAL FABRICANTE :		II - CARACTERÍSTICAS FÍSICAS	0 ~/
FADRICANTE:		Máximo VOC	0 g/L
EE.UU. y Puerto Rico	<u>Canadá</u>	Punto de ebullición	>212°F (>100°C)
MAPEI CORPORATION	MAPEI INC.	Presión de Vapor (mmHg)	1,0
1144 East Newport Center Drive	2900 Francis-Hughes Avenue	Densidad de Vapor (AIR=1)	1,10 - 1,20
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravedad Específica (H20=1)	1,00 - 1,30
Ph: (954) 246-8888	Ph: (450) 662-1212	Punto de fusión	N/E
MSDS PREPARADO POR:		Tarifa de Evaporación (Butyl Acetate=1)	Mismo como agua.
El departamento de Asuntos Regu	ulatorios - Norteamérica	Solubilidad en el agua	Soluble
FECHA de REVISION (YYYY/MM	<b>I/DD):</b> 2005/07/15	pH (pasta/el líquido)	8,0 - 10,0
Obtenga el MSDS mas actual en	www.mapei.com	Aspecto y Olor	La pasta beige. El olor leve de látex.
	VOC a	leliberado por (la Regla 1168, Distrito de Calida	ad del aire de Costa de Sur - California)

**III - EVALUACION DE RIESGOS** ACGIH (TLV-**Componentes Arriesgados** % Por ciento (identidad específica química; nombres comunes): OSHA (PEL) **Otros Límites Recomendados** TWA) (de Opcional) ESTO PRODUCTO NO CONTIENE INGREDIENTES NOCIVOS COMO SON DEFINIDOS POR LA NORMA EE. UU. OSHA DE COMUNICACIÓN NOCIVA - 29 CFR 1910.1200 O DE ACUERDO CON LA SECCIÓN 13 DE LA ACTA DE PRODUCTOS NOCIVOS CANADIENSE. Para California: Este Producto no contiene ningunas sustancias químicas denunciables bajo la proposición 65. Todos los ingredientes están dentro de o exento del TSCA de EE. UU. y del DSL Canadiense. (EE. UU) - HMIS (Sistema de Identificación de materiales peligrosos) Posición: Salud- 1 Reactividad-0 Protección- B "\*" = Crónico Fuego-0 (Canadá) - WHMIS (Información de Materiales peligrosos de Lugar de trabajo Sistema) Clasificaciones: No regulado bajo WHMIS. **IV - TRANSPORTE** Vía Terrestre - EE.UU. y Puerto Rico (DOT): Vía Marítima (IMDG):

No regulado. No regulado. Vía Terrestre - Canadá (TDG): Vía Aérea (IATA): No regulado. No regulado. V - DATOS DE RIESGO DE INCENDIO Y EXPLOSIÓN Punto de inflamación: >212°F (>100°C) Límite Inferior Explosivo (%) - N/E Límite Superior Explosivo (%) - N/E Fuego Insólito y Peligros de Explosión - Algunos productos de descomposición pueden ser dañinos. Medios De Extinción: No se quemará excepto bajo temperaturas extremas. El rocío de agua, el dióxido de carbón, químico seco o espuma. **Procedimientos Especiales Contra incendios:** Utilize equipo estándar contra incendios con aparato respiratorio integrado. ESTABILIDAD: Estable **VI - DATOS DE REACTIVIDAD** Condiciones de Evitar: Ninguno sabido(conocido). Incompatibilidad (Materiales a Evitar): Agentes de oxidación fuertes, ácidos fuertes, y bases fuertes. Descomposición de Riesgo por Productos: Monóxido de carbono, dióxido de carbón, óxidos de nitrógeno, y otros compuestos no identificados orgánicos. 

English Version on pages 2 and 3. Version Française à la pages 4 et 5. La versión en Español en las páginas 6 y 7. Ultrabond ECO™ 185 MSDS Page 6 of 7 Page 6 de 7 Páginas 6 de 7 Polimerización: No ocurrirá. Condiciones de Evitar: Ninguno sabido(conocido).

#### VII - DATOS DE RIESGO PARA LA SALUD

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Las rutas de entrada: ¿Inhalación? SÍ ¿Piel? SÍ ¿Ingestión? NO
```

Peligros para la salud:

Agudo: No se sospechan ningunos efectos bajo uso profesional normal.

Crónico: Ninguno sabido(conocido).

Cancerígeno: NTP - NO IARC - NO OSHA - NO

Signos y Síntomas de Exceso de exposición:

No se sospechan ningunos efectos bajo eso profesional normal.

Condiciones Médicas Que Pueden Ser Agravadas por Exposición:

Alergias, desordenes de la piel y respiratorias. Sensibilidad al producto.

#### **VIII - PROCEDIMIENTOS DE EMERGENCIA Y PRIMEROS AUXILIOS**

Ojos: Sosteniendo el párpado abierto vierta agua fresca durante 15 minutos. Si la irritación persiste, busca atención médica inmediatamente.

Piel: Evite el contacto con la piel. Quite la ropa contaminada. Lave el área afectada completamente con jabón y agua. Si la irritación persiste, busca la atención médica inmediata.

Inhalación: Sacar al aire fresco si se exceden las concentraciónes permitidas de cualquiera de los ingredientes peligrosos. Si no esta respirando, personal especializado debe de iniciar respiración artificial y se debe de obtener atención médica de inmediato.

Ingestión: No induzca vomito. No dé nada por la boca a una persona inconsciente. Busque la atención médica inmediatamente.

#### **IX - PRECAUCIONES PARA MANEJO SEGURO Y EMPLEO**

#### Pasos para ser tomados si el Material se Escapa se Derramado:

Usar equipo protectivo. Contener la dispersión por medio de materials absorbentes y poner en un contenedor aprobado de desecho.

Método de Recogida de basuras: Elimínelo de acuerdo con los reglamentos medioambientales locales.

#### Precauciones para ser tomadas durante Manejo y Almacenaje:

Mantenga el recipiente cerrado cuando no lo use. Almacénelo a 15 a 35°C (60 a 95°F) y lejos del sol. Ventile adecuadamente el espacio para evitar respirar los vapores que se emitan al retirar la tapa de la cubierta.

Otras Precauciones: Evite el contacto prolongado con la piel.

#### **X - MEDIDAS DE CONTROL**

#### Protección Respiratoria:

Si el límite de exposición al producto en el lugar de trabajo se excede, un respirador de aire aprobado por NIOSH/MSHA es requerido en la ausencia de control medioambiental apropiado. Controles de ingenieros o administrativos se deben de implementar a fin de reducir la exposición.

 Ventilación:
 Gases de combustión Locales Sólo use en áreas BIEN VENTILADAS.
 Mecánico Sólo use dispositivos intrínsecamente seguros.

 Especial N/A
 Otro N/A

Protección de Ojos: Gafas de seguridad son necesarios para prevenir contacto con los ojos.

Guantes Protectores: Impenetrable. (Nitrile, caucho, o bien)

Otro Equipo Protector: Como sea necesario para minimizar el contacto con la piel.

N/A="No Aplicable" N/E="No Establecido"

La información contenida aquí está basada en datos considerados exactos. Sin embargo, ninguna garantía es expresada o implicada en cuanto a la exactitud de estos datos o los resultados para ser obtenidos del uso del mismo. MAPEI no asume ninguna responsabilidad del daño corporal o daño de propiedad a compradores, usuarios, o a terceros causado por el material. Dichos compradores o usuarios asumen todo riesgo asociado con el empleo del material.



## Ultrabond ECO™ 575

## Material Safety Data Sheet (MSDS)

English Version on pages 2 and 3.

## Fiche signalétique (MSDS)

Version Française à la pages 4 et 5.

## Hoja de Datos Material De seguridad (MSDS)

La versión en Español en las páginas 6 y 7.

Product Name: Ultra bond ECO<sup>™</sup> 575

Product Description: Premium Cove Base Adhesive

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT CONTACT THE FOLLOWING NUMBERS:

EMERGENCY 24 HOUR NUMBER (USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

#### CONSUMER STATEMENT:

CAUTION - EYE IRRITANT. NON-TOXIC.

#### WORK AND HYGIENE PRACTICE:

Remove contaminated clothing immediately. Wash hands, after each use and before eating, drinking, or using toiletries. Minimize contact of product on skins.

		II - PHYSICAL CHARACTERIS	TICS		
MANUFACTURER:	UFACTURER: Calculated VOC (See below.) Boiling Point		<b>0 g/L</b> >212°F (>100°C)		
USA and Puerto Rico					
MAPEI CORPORATION MAPEI INC. 1144 East Newport Center Drive 2900 Francis-Hughes Avenue		Vapor Pressure (mmHg)	1,0		
		Vapor Density (AIR=1)	1,10 - 1,20		
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Specific Gravity (H20=1)	1,00 - 1,30		
Ph: (954) 246-8888	Ph: (450) 662-1212	Melting/Freezing Point (F)	N/E		
MSDS PREPARED BY: Regulatory Affairs Department - MAPEI North America		Evaporation Rate (Butyl Acetate=1)	Same as water.		
		Solubility in water	Soluble		
REVISION DATE (YYYY/MM		pH (paste/liquid)	8,0 - 10,0	8,0 - 10,0	
•	nload document from: <u>www.mapei.com</u>	Appearance and Odor	Beige paste. Slight	odor of latex.	
		(VOC per CA South Coast Ai	r Quality Management D	istrict, Rule 1168)	
III - HAZARD ASSESSME	ENT				
Hazardous Components (specific chemical identity; c	ommon names): OSHA (P	ACGIH (TLV PEL) TWA) Other Limits	s Recommended	% Percent (Optional)	
	NO HAZARDOUS INGREDIENTS AS DEF OF THE CANADIAN HAZARDOUS PRO		ICATION STANDARD	- 29 CFR	
For California (Proposition 65	i): This product contains no chemicals re	portable under Proposition 65.			
All ingredients are listed withir	n or exempted from US TSCA and Canad	dian DSL.			
(USA) - HMIS (Hazardous Ma	terials Identification System) Rating:	Health - 1 Fire -0 Reactivity -0	Protection - B	*" = chronic effect	
(Canada) - WHMIS (Workplac	ce Hazardous Materials Information Syst	tem) Classifications: Not regulated unde	er WHMIS.		
IV - TRANSPORTATION		By SEA (IMDG):			
By GROUND - USA and Pue	rto Rico (DOT):	Not Regulated			
Not Regulated		By AIR (IATA):			
By GROUND - Canada (TDG	i):				
Not Regulated		Not Regulated			
V - FIRE AND EXPLOSIO	N HAZARD DATA				
Flash Point: >212°F (>100°C	b) Lower Explosive Limit (%)	) - N/E Upper Explosive Limit (	%) - N/E		
Unusual Fire and Explosion H Extinguishing Media:	lazards - Some decomposition products	may be harmful.			
• •	eme temperatures. Water spray, carbon d	lioxide, dry chemical or foam			
Special Fire Fighting Procee					
	ar with self-contained breathing apparatu	JS.			
	0.11	Conditions to Avoid: None known.			
VI - REACTIVITY DATA	Stability: Stable	Conditions to Avoia: None Known.			
Page 2 of 7 Page 2 de 7					

Page 2 de 7 Páginas 2 de 7

Ultrabond ECO 575

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, and strong bases.

Hazard Decomposition of By-products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds.

Polymerization: Will Not Occur Conditions to Avoid: None known.

VII - HEALTH HAZARD DATA		
Routes of entry during normal usage: Inhalation? YES	Skin? YES	Ingestion? NO
Health Hazards:		
Acute: No effects are suspected under normal professio	nal use.	
Chronic: None known.		
Carcinogenicity: NTP -NO IARC - NO OSHA	A - NO	
Signs and Symptoms of Overexposure:		
No effects are suspected under normal professional use.		
Medical Conditions That Can Be Aggravated by Exposure	re:	

Allergies, skin and respiratory disorders. Product sensitivity.

#### **VIII - EMERGENCY AND FIRST AID PROCEDURE**

Eyes: Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately.

Skin: Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek immediate medical attention.

Inhalation: Remove to fresh air if allowable concentrations of any of the hazardous ingredients are exceeded. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

#### IX - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if Material is Leaked or Spilled:

Wear protective equipment. Contain by diking with inert absorbent materials and put into an approved waste container.

Waste Disposal Method: Dispose in accordance to local environmental regulation.

#### Precautions to be taken during Handling and Storage:

Keep container closed when not in use. Store at 60-95°F (15-35°C) and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed.

Other Precautions: Avoid prolonged skins contact.

#### **X - CONTROL MEASURES**

Respiratory	Protection:
-------------	-------------

If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator is required in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.				
Ventilation:	Local Exhaust - U	se in WELL VENTILATED areas only.	Mechanical - L	lse only intrinsically safe devices.
	Special -	N/A	Other -	N/A
Eye Protection: S	Safety glasses or g	oggles as necessary to prevent eye contact.		
Protective Gloves	: Impervious. (	Nitrile, rubber, or better)		

Other Protective Equipment: As needed to minimize contact with skin.

N/A="Not Applicable" N/E="Not Established"

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. MAPEI assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

Nom du produit: **Ultra bond ECOTM 575** 

Description du produit: Adhésif de qualité supérieure pour plinthes

POUR TOUT PROBLÈME D'ORDRE CHIMIQUE AVEC DÉVERSEMENT, FUITE, INCENDIE, EXPLOSION, EXPOSITION OU ACCIDENT, COMPOSER LES NUMÉROS SUIVANTS :

URGENCE JOUR ET NUIT : (É.-U.) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

AVIS AUX CONSOMMATEURS :

AVERTISSEMENT - IRRITANT POUR LES YEUX. NON TOXIQUE.

#### **HYGIÈNE ET PRATIQUES AU TRAVAIL :**

Enlever immédiatement les vêtements souillés. Se laver les mains après chaque utilisation et avant de manger, de boire ou de se servir d'articles de toilette. Éviter autant que possible le contact du produit avec la peau.

I - RENSEIGNEMENTS GÉNÉRAUX		II - CARACTÉRISTIQUES PHYSIQUES		
FABRICANTE :		COV calculé (voir plus bas)	0 g/L	
ÉU. et Porto Rico	Canada	Point d'ébullition	>212°F (>100°C)	
MAPEI CORPORATION	MAPEI INC.	Pression de Vapeur (mmHg)	1,0	
1144 East Newport Center Driv	e 2900 Francis-Hughes Avenue	Densité de Vapeur (AIR=1)	1,10 - 1,20	
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravité Spécifique (H20=1)	1,00 - 1,30	
Ph: (954) 246-8888	Ph: (450) 662-1212	Point de fusion	N/E	
FICHE SIGNALÉTIQUE RÉDIGE	E PAR :	Rythme d'évaporation (acétate de	Celui de l'eau.	
Service des affaires réglementaires - MAPEI Amérique du Nord <b>DATE DE RÉVISION (YYYY/MM/DD):</b> 2008/11/06 Télécharger la fiche signalétique la plus récente de :		butyle=1) Solubilité dans l'eau	Soluble	
		pH (pâte/liquide)	8,0 - 10,0	
www.mapei.com		Aspect et odeur	Pâte beige. Odeur légère de latex.	

VOC calculé par (la Règle(l'Autorité) 1168, Zone de Qualité de l'air de Côte du (COV selon le règlement 1168, CA South Coast Air Quality Management District)

### III - ÉVALUATION DES DANGERS

Ingredients dangereux (designation chimique		ACGIH (TLV-			Pourcentage
spécifique; appellations courantes)	OSHA (PEL)	TWA)	Autres limites rec	ommandées	(optionnel)
CE PRODUIT NE CONTIENT PAS D'INGRÉDIENTS DANGE OSHA 29 CFR 191 0.1200 NI DANS LA SECTION 13 DE LA					
Pour la Californie (Proposition 65) - Ce produit ne contient au Tous les ingrédients sont répertoriés aux ÉU., sous l'inven	•	•		rertu de la Propositi	on 65.
(ÉU.) – Évaluations HMIS (Hazardous Materials Identification	n System) : S	anté-1 Feu-C	) Réactivité -0	Protection - B "*"=	effet chroniquet
(Canada) - Classification SIMDUT (Système d'information su	ur les matières dar	gereuses utilisées	s au travail): Non re	églementé selon le S	SIMDUT.

IV - TRANSPORT	
Par VOIE DE TERRE – ÉU. et Porto Rico (DOT) :	Par VOIE D'EAU (IMDG) :
Non réglementé.	Non réglementé.
Par VOIE DE TERRE – Canada (TMD) :	Par VOIE DES AIRS (IATA) :
Non réglementé.	Non réglementé.

#### V - DONNÉES SUR LES RISQUES D'INCENDIE ET D'EXPLOSION

Point d'éclair : >212°F (>100°C)	Limite inférieure d'explosivité (%) - N/E	Limite supérieure d'explosivité (%) - N/E
Dangers inhabituels d'incendie et d'explosion -	Certains produits issus de la décomposition	peuvent être nocifs.

#### Agent extincteur :

Le produit ne brûlera pas tant que la teneur en eau ne sera entièrement évaporée. Eau pulvérisée, dioxyde de carbone, poudre chimique ou mousse. Règles à observer dans la lutte contre les feux spéciaux :

Porter les accessoires et les vêtements standards de lutte contre l'incendie, incluant un appareil respiratoire.

#### **VI - DONNÉES SUR LA RÉACTIVITÉ**

Stabilité : Stable

Conditions à éviter : Aucune connue

Page 4 of 7
Page 4 de 7
Páginas 4 de 7

Incompatibilité (matériaux à éviter) : Oxydants forts, acides forts et bases fortes.

Risques de décomposition des sous-produits : Monoxyde de carbone, dioxyde de carbone, oxydes d'azote et autres composés organiques non identifiés.

Polymérisation: Ne se produira pas. Conditions d'Éviter: Aucune connue.

#### **VII - DONNÉES SUR LES RISQUES POUR LA SANTÉ**

 Modes d'absorption durant un usage normal :
 Par inhalation? OUI
 Par la peau? OUI
 Par ingestion? NON

 Risques pour la santé :
 Effets aigus : Aucun risque suspecté en cas d'ingestion par suite d'exposition professionnelle.
 Par ingestion? NON

 Effets chroniques : Aucune connue.
 Cancérogénicité : NTP -NON
 CIRC- NON
 OSHA - NON

 Signes et symptômes de surexposition :
 Aucun risque suspecté en cas d'ingestion par suite d'exposition professionnelle.
 Effets

 Conditions médicales susceptibles d'être aggravées par une exposition au produit :
 Effets au peau? OUI
 Par ingestion? NON

Allergies, problèmes cutanés ou respiratoires. Sensibilité au produit.

#### **VIII - URGENCE ET PREMIERS SOINS**

Yeux: Rincer à l'eau froide pendant 15 minutes en tenant les paupières ouvertes. Si l'irritation persiste, consulter immédiatement un médecin.

- Peau: Éviter tout contact avec la peau. Enlever les vêtements souillés. Rincer à fond à l'eau savonneuse la zone éclaboussée. Si l'irritation persiste, consulter un médecin immédiatement.
- Inhalation : Sortir au grand air si la concentration admissible des produits dangereux est dépassée. En cas d'arrêt respiratoire, une ou des personnes formées devraient commencer la respiration artificielle. Appeler immédiatement un médecin.

Ingestion : Ne pas faire vomir. Ne jamais rien administrer oralement à une personne inconsciente. Appeler immédiatement un médecin.

#### IX - PRÉCAUTIONS EN VUE D'UNE MANUTENTION ET D'UN USAGE SÉCURITAIRES

#### Mesures à prendre en cas de fuite ou de déversement :

En se servant des accessoires de protection appropriés, placer le produit déversé dans un fût de stockage en poly ou dans tout autre contenant exigé par les éliminateurs locaux, puis entreposer dans un endroit sécuritaire, jusqu'à ce que le produit soit évacué selon la réglementation en vigueur. **Méthode d'évacuation des déchets :** Évacuer les déchets selon les réglementations fédérale, provinciale (ou de l'État) et municipale en vigueur.

#### Précautions lors de la manutention et de l'entreposage :

Refermer le contenant lorsqu'on ne se sert pas du produit. Entreposer à 15 – 35°C (60 - 95°F) et à l'abri du soleil. Lorsque le contenant est ouvert, assurer une ventilation convenable afin d'éviter d'inhaler les vapeurs du produit. **Précaution additionnelle :** Éviter un contact prolongé du produit avec la peau.

#### X - MESURES DE CONTRÔLE

#### Protection des voies respiratoires :

Dans l'éventualité d'un dépassement des limites d'exposition permises et en l'absence de contrôles environnementaux appropriés, porter un appareil respiratoire à adduction d'air approuvé par le NIOSH/MSHA. Il faut mettre en œuvre des mesures d'ingénierie et des mesures administratives de contrôle dans le but de réduire l'exposition au produit.

Ventilation:	Locale -	N'employer que dans des endroits BIEN AÉRÉS.	Mécanique -	N'utiliser que des appareils intrinsèquement sécuritaires.
	Spéciale -	S/O	Autre -	S/O

Protection des yeux : Porter des lunettes de sécurité ou anti-éclaboussures afin de prévenir le contact avec les yeux.

Gants de protection : Imperméables ( nitrile, caoutchouc ou mieux).

Autres accessoires ou vêtements de protection : Jugé nécessaire afin de réduire le contact avec la peau.

#### S/O="Sans objet" N/D="Non déterminé"

L'information présentée dans les présentes s'appuie sur des données jugées exactes. Nous ne fournissons, toutefois, aucune garantie, expresse ou implicite, au chapitre de l'exactitude de ces données ni des résultats qui en découlent. MAPEI n'assume aucune responsabilité en matière de blessures ni de dommages matériels, imputables au produit et subis par les acquéreurs, les utilisateurs ou de tierces parties. Les acquéreurs et les utilisateurs assumeront tous les risques reliés à l'utilisation du produit.

Nombre de producto: Descripción de producto:

### Ultra bond ECO 575

Adhesivo para molduras cóncavas de calidad superior

EN CASO DE UNA EMERGENCIA QUÍMICA QUE IMPLICA UN DERRAME, ESCAPE, FUEGO, EXPOSICIÓN O ACCIDENTE PONGASE EN CONTACTO CON LOS SIGUIENTES NÚMEROS:

EMERGENCIA NÚMERO de 24 HORAS: (EE.UU.) CHEMTREC 1-800-424-9300 (El Canadá) CANUTEC 1-613-996-666 COMISIONA DECLARACIÓN PARA EL CONSUMIDOR:

PRECAUCIÓN - IRRITANTE DE OJOS. NO TÓXICO.

#### PRÁCTICAS DE TRABAJO É HIGIENE:

Quite la ropa contaminada inmediatamente. Lavar las manos, después de cada uso y antes de comer, beber, o de usar productos personales. Minimice el contacto del producto en la piel.

I - INFORMACIÓN GENERA Fabricante :	L	II - CARACTERÍSTICAS FÍSICAS Máximo VOC	0 g/L
EE.UU. y Puerto Rico	Canadá	Punto de ebullición	>212°F (>100°C)
MAPEI CORPORATION	MAPEI INC.	Presión de Vapor (mmHg)	1,0
1144 East Newport Center Drive	e 2900 Francis-Hughes Avenue	Densidad de Vapor (AIR=1)	1,10 - 1,20
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravedad Específica (H20=1)	1,00 - 1,30
Ph: (954) 246-8888	Ph: (450) 662-1212	Punto de fusión	N/E
MSDS PREPARADO POR:		Tarifa de Evaporación (Butyl Acetate=1) N	<i>l</i> ismo como agua.
El departamento de Asuntos Reg	gulatorios - Norteamérica	Solubilidad en el agua	Soluble
FECHA de REVISION (YYYY/MI	<b>//DD):</b> 2008/11/06	pH (pasta/el líquido)	8,0 - 10,0
Obtenga el MSDS mas actual en	www.mapei.com	Aspecto y Olor	La pasta beige. El olor leve de látex.
	VOC	deliberado por (la Regla 1168, Distrito de Cali	idad del aire de Costa de Sur - California)

III - EVALUACION DE RIESGOS					
Componentes Arriesgados ( identidad específica química; nombres comunes):	ACGIH ( OSHA (PEL) TWA)		s Límites Recon	sobebner	% Por ciento (de Opcional)
ESTO PRODUCTO NO CONTIENE INGREDIENTES NOC NOCIVA - 29 CFR 1910.1200 O DE ACUERDO CON LA S	IVOS COMO SON DEFINIDOS	POR LA NOR	MA EE. UU. OSI	HA DE COMUN	,
Para California: Este Producto no contiene ningunas susta	ancias químicas denunciables	oajo la proposi	ción 65.		
Todos los ingredientes están dentro de o exento del TSCA (EE. UU) - HMIS (Sistema de Identificación de materiales	,	iense. Fuego- 0	Reactividad-0	Protección	- B "*" = Crónico
(Canadá) - WHMIS (Información de Materiales peligrosos	de Lugar de trabajo Sistema)	Clasificacione	es: No regulado b	oajo WHMIS.	
IV - TRANSPORTE Vía Terrestre - EE.UU. y Puerto Rico (DOT):	Vía Marítin	ıa (IMDG):			
No regulado. Vía Terrestre - Canadá (TDG):	No regulad				
No regulado.	Vía Aérea No regulad	. ,			
V - DATOS DE RIESGO DE INCENDIO Y EXPLOS	ΙΌΝ				
Punto de inflamación: >212°F (>100°C) Fuego Insólito y Peligros de Explosión - Algunos producto Medios De Extinción:	Límite Inferior Explosivo (%) os de descomposición pueden		Límite Superi	or Explosivo (	%) - N/E
No se quemará excepto bajo temperaturas extremas. El ro	ocío de agua, el dióxido de car	bón, químico s	eco o espuma.		
Procedimientos Especiales Contra incendios: Utilize equipo estándar contra incendios con aparato respi	ratorio integrado.				
VI - DATOS DE REACTIVIDAD ESTABILIDAD: Esta	able Condiciones d	e Evitar: Ning	uno sabido(cono	cido).	
Incompatibilidad (Materiales a Evitar): Agentes d Descomposición de Riesgo por Productos: Monóxido de orgánicos.				npuestos no ide	entificados
Daga 6 of 7 Baga 6 da 7 Báginas 6 da 7					

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Ultrabond ECO 575

Polimerización: No ocurrirá.

Condiciones de Evitar: Ninguno sabido(conocido).

#### **VII - DATOS DE RIESGO PARA LA SALUD**

Las rutas de entrada: ¿Inhalación? SÍ ¿Piel? SÍ ¿Ingestión? NO

Peligros para la salud:

Agudo: No se sospechan ningunos efectos bajo uso profesional normal.

Crónico: Ninguno sabido(conocido).

Cancerígeno: NTP -NO IARC - NO OSHA - NO

Signos y Síntomas de Exceso de exposición:

No se sospechan ningunos efectos bajo eso profesional normal.

Condiciones Médicas Que Pueden Ser Agravadas por Exposición:

Alergias, desordenes de la piel y respiratorias. Sensibilidad al producto.

#### **VIII - PROCEDIMIENTOS DE EMERGENCIA Y PRIMEROS AUXILIOS**

Ojos: Sosteniendo el párpado abierto vierta agua fresca durante 15 minutos. Si la irritación persiste, busca atención médica inmediatamente.

- Piel: Evite el contacto con la piel. Quite la ropa contaminada. Lave el área afectada completamente con jabón y agua. Si la irritación persiste, busca la atención médica inmediata.
- Inhalación: Sacar al aire fresco si se exceden las concentraciónes permitidas de cualquiera de los ingredientes peligrosos. Si no esta respirando, personal especializado debe de iniciar respiración artificial y se debe de obtener atención médica de inmediato.

Ingestión: No induzca vomito. No dé nada por la boca a una persona inconsciente. Busque la atención médica inmediatamente.

#### **IX - PRECAUCIONES PARA MANEJO SEGURO Y EMPLEO**

#### Pasos para ser tomados si el Material se Escapa se Derramado:

Usar equipo protectivo. Contener la dispersión por medio de materials absorbentes y poner en un contenedor aprobado de desecho.

Método de Recogida de basuras: Elimínelo de acuerdo con los reglamentos medioambientales locales.

#### Precauciones para ser tomadas durante Manejo y Almacenaje:

Mantenga el recipiente cerrado cuando no lo use. Almacénelo a 15 a 35°C (60 a 95°F) y lejos del sol. Ventile adecuadamente el espacio para evitar respirar los vapores que se emitan al retirar la tapa de la cubierta. **Otras Precauciones:** Evite el contacto prolongado con la piel.

**X - MEDIDAS DE CONTROL** 

#### Protección Respiratoria:

Si el límite de exposición al producto en el lugar de trabajo se excede, un respirador de aire aprobado por NIOSH/MSHA es requerido en la ausencia de control medioambiental apropiado. Controles de ingenieros o administrativos se deben de implementar a fin de reducir la exposición. **Ventilación:** Gases de combustión Locales - Sólo use en áreas BIEN VENTILADAS. Mecánico - Sólo use dispositivos intrínsecamente seguros.

Especial - N/A Otro - N/A
Protección de Oios: Gafas de seguridad son necesarios para prevenir contacto con los pios

Protección de Ojos: Gafas de seguridad son necesarios para prevenir contacto con los ojos.

Guantes Protectores: Impenetrable. (Nitrile, caucho, o bien)

Otro Equipo Protector: Como sea necesario para minimizar el contacto con la piel.

N/A="No Aplicable" N/E="No Establecido"

La información contenida aquí está basada en datos considerados exactos. Sin embargo, ninguna garantía es expresada o implicada en cuanto a la exactitud de estos datos o los resultados para ser obtenidos del uso del mismo. MAPEI no asume ninguna responsabilidad del daño corporal o daño de propiedad a compradores, usuarios, o a terceros causado por el material. Dichos compradores o usuarios asumen todo riesgo asociado con el empleo del material.



## Ultraflex® 1

## Material Safety Data Sheet (MSDS)

English Version on pages 2 and 3.

Fiche signalétique (MSDS) Version Française à la pages 4 et 5.

Hoja de Datos Material de seguridad (MSDS) La versión en Español en las páginas 6 y 7. Product Name: Ultraflex® 1

Product Description: Polymer-Modified Mortar

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

EMERGENCY 24 HOUR NUMBER (USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

#### CONSUMER STATEMENT:

DANGER - CORROSIVE. SKIN, EYE AND RESPIRATORY IRRITANT. CONTAINS KNOWN OR PROBABLE HUMAN CARCINOGEN. HARMFUL OR FATAL IF SWALLOWED.

#### WORK AND HYGIENE PRACTICE:

Remove contaminated clothing immediately. Wash hands, after each use and before eating, drinking, or using toiletries. Minimize contact of product on skins.

I - GENERAL INFORMATION		II - PHYSICAL CHARACTERIST	ICS
MANUFACTURER:		Calculated VOC (See below.)	0 g/L
USA and Puerto Rico	<u>Canada</u>	Boiling Point	N/A
MAPEI CORPORATION	MAPEI INC.	Vapor Pressure (mmHg)	N/A
1144 East Newport Center Drive	2900 Francis-Hughes Avenue	Vapor Density (AIR=1)	N/A
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Specific Gravity (H20=1)	2,00 - 2,30
Ph: (954) 246-8888	Ph: (450) 662-1212	Melting/Freezing Point (F)	N/A
MSDS PREPARED BY:		Evaporation Rate (Butyl Acetate=1)	N/A
Regulatory Affairs Department - M	IAPEI North America	Solubility in water	Soluble
<b>REVISION DATE (YYYY/MM/DD)</b>	: 2005/09/19	pH (paste/liquid)	11,0 - 13,0
For most current MSDS, download	d document from: www.mapei.com	Appearance and Odor	Gray or white powder. General cement odor.

(VOC per CA South Coast Air Quality Management District, Rule 1168)

III - HAZARD ASSESSMENT Hazardous Components (specific chemical identity; common names):	OSHA (PEL)	ACGIH (TLV- TWA)	Other Limits Recommended	% Percent (Optional)
Silica Sand, Crystalline Quartz (CAS# 14808-60-7)	10mg/m <sup>3</sup>	0,1mg/m³	N/E	40 - 70
Hydraulic Cement (CAS# 65997-15-1)	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N/E	15 - 40
Calcium Carbonate (CAS# 1317-65-3)	5mg/m³	10mg/m <sup>3</sup>	(Respirable dust only.)	5 - 10
For California (Proposition 65): This product contains cl toxicity.	nemicals known to the	e State of Californi	a to cause cancer, birth defects or othe	er reproductive

All ingredients are listed within or exempted from US TSCA and Canadian DSL.

(USA) - HMIS (Hazardous Materials Identification System) Rating: Reactivity - 0 Protection - E "\*" = chronic effect Health - 3 Fire - 0 (Canada) - WHMIS (Workplace Hazardous Materials Information System) Classifications: E and D2A

IV - TRANSPORTATION By GROUND - USA and Puerto Rico ( Not Regulated By GROUND - Canada (TDG): Not Regulated	(DOT):	By SEA (IMDG): Not Regulated By AIR (IATA): Not Regulated		
V - FIRE AND EXPLOSION HAZA	RD DATA			
Flash Point: N/A	Lower Explosive Limit (%)	- N/A Upper Explosive Limit (%) - N/A		
Unusual Fire and Explosion Hazards -	1 ( )			
Extinguishing Media:				
Will not burn except under extreme tem	peratures. Water spray, carbo	n dioxide, dry chemical or foam.		
Special Fire Fighting Procedures:				
Wear standard fire fighting gear with se	If-contained breathing apparatu	s.		
VI - REACTIVITY DATA	Stability: Stable	Conditions to Avoid: None known.		
English Version on pages 2 and 3.		Ultraflex® 1 P	age 2 of 7	

Version Française à la pages 4 et 5. La versión en Español en las páginas 6 y 7.

MSDS

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, and strong bases.

Hazard Decomposition of By-products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds. Polymerization: Will Not Occur Conditions to Avoid: None known.

VII - HEAL	TH HAZARD	DATA						
Routes of ent	try during norm	nal usage:	Inhalation?	YES	Skin? Yl	ES	Ingestion?	NO
Health Hazaı	rds:							
Acute: Inl	halation or cor	ntact can ca	use irritation	to eyes, ski	in, nose or	throat to	sensitive pe	ople.
Chronic: Re	epeated (long	term) inhala	ation of dust r	nay result ir	n silicosis.			
Carcinogenic	ity: NTP - Y	ES IAF	RC - NO	OSHA - N	NO	Crystallir	ne Silica - N	TP Rating 1
Signs and S	ymptoms of C	Overexposi	ure:					
Dry skin, derr	matitis, dry cou	ugh, irritateo	d eyes from d	ust or any o	other poter	ntial adver	se condition	related to the alkaline nature of wet cement.
Medical Con	ditions That (	Can Be Ag	gravated by	Exposure:				
Allergies, skir	n and respirate	ory disorder	s. Product s	ensitivity.				

#### **VIII - EMERGENCY AND FIRST AID PROCEDURE**

- Eyes: Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately.
   Skin: Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek immediate medical attention.
- Inhalation: Remove to fresh air if allowable concentrations of any of the hazardous ingredients are exceeded. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.
- Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

#### **IX - PRECAUTIONS FOR SAFE HANDLING AND USE**

#### Steps to be taken if Material is Leaked or Spilled:

Wear protective equipment. Contain by diking with inert absorbent materials and put into an approved waste container.

Waste Disposal Method: Dispose in accordance to local environmental regulation.

#### Precautions to be taken during Handling and Storage:

Store in a manner to prevent dusty conditions.

Other Precautions: Avoid prolonged skins contact.

#### **X - CONTROL MEASURES**

#### **Respiratory Protection:**

During work with dry product it is recommended to wear a NIOSH/MSHA approved respirator in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure to dust.

 Ventilation:
 Local Exhaust Use in WELL VENTILATED areas only.

 Special N/A

Mechanical - Use only intrinsically safe devices. Other - N/A

 Eye Protection:
 Safety glasses or goggles as necessary to prevent eye contact.

 Protective Gloves:
 Impervious. (Nitrile, rubber, or better)

 Other Protective Equipment:
 As needed to minimize contact with skin.

\_\_\_\_\_

Other Protective Equipment: As needed to minimize contact w

N/A="Not Applicable" N/E="Not Established"

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. MAPEI assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. All users assume all risks associated with the use of the material.

Lire MSDS complet avant l'utilisation de produit.

Nom du produit: **Ultraflex® 1** 

Description du produit: Ciment-colle monocomposé

\_\_\_\_\_

POUR TOUT PROBLÈME D'ORDRE CHIMIQUE AVEC DÉVERSEMENT, FUITE, INCENDIE, EXPLOSION, EXPOSITION OU ACCIDENT, COMPOSER LES NUMÉROS SUIVANTS :

URGENCE JOUR ET NUIT : (É.-U.) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

#### AVIS AUX CONSOMMATEURS :

DANGER

 CORROSIF. IRRITANT POUR LES YEUX, LA PEAU ET LES VOIES RESPIRATOIRES. CONTIENT DES INGRÉDIENTS RECONNUS OU POUVANT ÊTRE CANCÉROGÈNES POUR L'ÊTRE HUMAIN. NOCIF OU MORTEL SI AVALÉ.

#### **HYGIÈNE ET PRATIQUES AU TRAVAIL :**

Enlever immédiatement les vêtements souillés. Se laver les mains après chaque utilisation et avant de manger, de boire ou de se servir d'articles de toilette. Éviter autant que possible le contact du produit avec la peau.

I - RENSEIGNEMENTS GÉNÉ	ÉRAUX	II - CARACTÉRISTIQUES PHYSIQUES		
FABRICANTE :		COV calculé (voir plus bas)	0 g/L	
<u>ÉU. et Porto Rico</u>	<u>Canada</u>	Point d'ébullition	S/O	
MAPEI CORPORATION	MAPEI INC.	Pression de Vapeur (mmHg)	S/O	
1144 East Newport Center Drive	2900 Francis-Hughes Avenue	Densité de Vapeur (AIR=1)	S/O	
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravité Spécifique (H20=1)	2,00 - 2,30	
Ph: (954) 246-8888	Ph: (450) 662-1212	Point de fusion	S/O	
FICHE SIGNALÉTIQUE RÉDIGÉ	E PAR :	Rythme d'évaporation (acétate de	S/O	
Service des affaires réglementaire	es - MAPEI Amérique du Nord	butyle=1)		
DATE DE RÉVISION (YYYY/MM/	DD): 2005/09/19	Solubilité dans l'eau	Soluble	
Télécharger la fiche signalétique l		pH (pâte/liquide)	11,0 - 13,0	
www.mapei.com		Aspect et odeur	Poudre grise ou blanche. Odeur de ciment.	

VOC calculé par (la Règle(l'Autorité) 1168, Zone de Qualité de l'air de Côte du (COV selon le règlement 1168, CA South Coast Air Quality Management District)

III - ÉVALUATION DES DANGERS Ingrédients dangereux (désignation chimique spécifique; appellations courantes)	OSHA (PEL)	ACGIH (TLV- TWA)	Autres limites recommandées	Pourcentage (optionnel)
Silice (CAS# 14808-60-7)	10mg/m³	0,1mg/m <sup>3</sup>	N/E	40 - 70
Ciment Hydraulique (CAS# 65997-15-1)	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N/E	15 - 40
Carbonate de Calcium (CAS# 1317-65-3)	5mg/m³	10mg/m <sup>3</sup>	(Respirable dust only.)	5 - 10

Pour la Californie (Proposition 65): Ce produit contient des produits chimiques connus à l'état de la Californie pour causer le cancer, des défauts de naissance ou d'autre toxicité reproductrice.

Tous les ingrédients sont répertoriés aux É.-U., sous l'inventaire du TSCA, et, au Canada, dans la liste LIS.

(É.-U.) – Évaluations HMIS (Hazardous Materials Identification System) : Santé- 3 Feu- 0 Réactivité - 0 Protection - E "\*"=effet chroniquet (Canada) – Classification SIMDUT (Système d'information sur les matières dangereuses utilisées au travail) : E and D2A

#### **IV - TRANSPORT**

Par VOIE DE TERRE – É.-U. et Porto Rico (DOT) : Non réglementé. Par VOIE DE TERRE – Canada (TMD) : Non réglementé. Par VOIE D'EAU (IMDG) : Non réglementé. Par VOIE DES AIRS (IATA) : Non réglementé.

#### V - DONNÉES SUR LES RISQUES D'INCENDIE ET D'EXPLOSION

 Point d'éclair : S/O
 Limite inférieure d'explosivité (%) - S/O
 Limite supérieure d'explosivité (%) - S/O

 Dangers inhabituels d'incendie et d'explosion Certains produits issus de la décomposition peuvent être nocifs.
 S/O

#### Agent extincteur :

Le produit ne brûlera pas tant que la teneur en eau ne sera entièrement évaporée. Eau pulvérisée, dioxyde de carbone, poudre chimique ou mousse.

#### Règles à observer dans la lutte contre les feux spéciaux :

Porter les accessoires et les vêtements standards de lutte contre l'incendie, incluant un appareil respiratoire.

VI - DONNÉES SUR LA RÉACTIVITÉ	Stabilité : Stable	Conditions à éviter	Aucune connue			
Incompatibilité (matériaux à éviter) : Oxydants	forts, acides forts et bas	ses fortes.				
Risques de décomposition des sous-produits	: Monoxyde de carbone identifiés.	, dioxyde de carbone, oxyde	s d'azote et autres composés organiques non			
Polymérisation: Ne se produira pas. Condition	ons d'Éviter: Aucune d	connue.				
VII - DONNÉES SUR LES RISQUES POUR	LA SANTÉ					
Modes d'absorption durant un usage normal :	Par inhalation? OUI	Par la peau? OUI	Par ingestion? NON			
Risques pour la santé :						
Effets aigus : L'inhalation ou le contact peut caus	er une irritation aux yeu	x, à la peau, au nez ou à la g	gorge chez les personnes sensibles.			
Effets chroniques : L'inhalation (à long terme) de l	a poussière peut résulté	en une silicose.				
Cancérogénicité : NTP - OUI CIRC- NON	OSHA - NON	Silice - NTP Rating 1				
Signes et symptômes de surexposition :						
Peau sèche, dermatite, toux sèche, yeux irrités pa	ar la poussière ou toute a	autre condition difficile due à	la nature alcaline du ciment humide.			
Conditions médicales susceptibles d'être aggr	onditions médicales susceptibles d'être aggravées par une exposition au produit :					
Allergies, problèmes cutanés ou respiratoires. Se	nsibilité au produit.					

#### VIII - URGENCE ET PREMIERS SOINS

Yeux : Rincer à l'eau froide pendant 15 minutes en tenant les paupières ouvertes. Si l'irritation persiste, consulter immédiatement un médecin.

Peau : Éviter tout contact avec la peau. Enlever les vêtements souillés. Rincer à fond à l'eau savonneuse la zone éclaboussée. Si l'irritation persiste, consulter un médecin immédiatement.

Inhalation : Sortir au grand air si la concentration admissible des produits dangereux est dépassée. En cas d'arrêt respiratoire, une ou des personnes formées devraient commencer la respiration artificielle. Appeler immédiatement un médecin.

Ingestion : Ne pas faire vomir. Ne jamais rien administrer oralement à une personne inconsciente. Appeler immédiatement un médecin.

#### IX - PRÉCAUTIONS EN VUE D'UNE MANUTENTION ET D'UN USAGE SÉCURITAIRES

#### Mesures à prendre en cas de fuite ou de déversement :

En se servant des accessoires de protection appropriés, placer le produit déversé dans un fût de stockage en poly ou dans tout autre contenant exigé par les éliminateurs locaux, puis entreposer dans un endroit sécuritaire, jusqu'à ce que le produit soit évacué selon la réglementation en vigueur.

Méthode d'évacuation des déchets : Évacuer les déchets selon les réglementations fédérale, provinciale (ou de l'État) et municipale en vigueur.

Précautions lors de la manutention et de l'entreposage :

Entreposer de manière à prévenir les conditions poussiéreuses.

Précaution additionnelle : Éviter un contact prolongé du produit avec la peau.

#### X - MESURES DE CONTRÔLE

#### Protection des voies respiratoires :

Utiliser un masque à poussière approuvé par le NIOSH de catégorie N95 lorsque vous travaillez avec le produit sec.

Ventilation:	Locale -	N'employer que dans des endroits BIEN AÉRÉS.		N'utiliser que des appareils intrinsèquement sécuritaires.
	Spéciale -	S/O	Autre -	S/O
			Charles and Charles to La	e se stant al se stant se

Protection des yeux : Porter des lunettes de sécurité ou anti-éclaboussures afin de prévenir le contact avec les yeux.

Gants de protection : Imperméables (nitrile, caoutchouc ou mieux).

\_\_\_\_\_

Autres accessoires ou vêtements de protection : Jugé nécessaire afin de réduire le contact avec la peau.

S/O="Sans objet" N/D="Non déterminé"

L'information présentée dans les présentes s'appuie sur des données jugées exactes. Nous ne fournissons, toutefois, aucune garantie, expresse ou implicite, au chapitre de l'exactitude de ces données ni des résultats qui en découlent. MAPEI n'assume aucune responsabilité en matière de blessures ni de dommages matériels, imputables au produit et subis par les acquéreurs, les utilisateurs ou de tierces parties. Les utilisateurs assumeront tous les risques reliés à l'utilisation du produit.

#### MAPEI® Hoja de Datos Material De seguridad (MSDS) - Norteamérica Lea MSDS completo antes de utilizar el producto.

Nombre de producto: Ultraflex® 1

Descripción de producto: Mortero de un paso

------

EN CASO DE UNA EMERGENCIA QUÍMICA QUE IMPLICA UN DERRAME, ESCAPE, FUEGO, EXPOSICIÓN O ACCIDENTE PONGASE EN CONTACTO CON LOS SIGUIENTES NÚMEROS:

EMERGENCIA NÚMERO de 24 HORAS: (EE.UU.) CHEMTREC 1-800-424-9300 (EI Canadá) CANUTEC 1-613-996-666

\_\_\_\_\_

#### COMISIONA DECLARACIÓN PARA EL CONSUMIDOR:

PELIGRO - COR

- CORROSIVO. IRRITANTE DE LA PIEL, LOS OJOS Y DEL SISTEMA RESPIRATORIO. CONTIENE CANCERÍGENOS HUMANOS CONOCIDOS Y POTENCIALES. DAÑINO O LETAL SI SE INGIERE.

#### PRÁCTICAS DE TRABAJO É HIGIENE:

\_....

Quite la ropa contaminada inmediatamente. Lavar las manos, después de cada uso y antes de comer, beber, o de usar productos personales. Minimice el contacto del producto en la piel.

I - INFORMACIÓN GENERAL	-	II - CARACTERÍSTICAS FÍSICAS	
FABRICANTE :		Máximo VOC	0 g/L
EE.UU. y Puerto Rico	<u>Canadá</u>	Punto de ebullición	N/A
MAPEI CORPORATION	MAPEI INC.	Presión de Vapor (mmHg)	N/A
1144 East Newport Center Drive	2900 Francis-Hughes Avenue	Densidad de Vapor (AIR=1)	N/A
Deerfield Beach, FL 33442	Laval, QC H7L 3J5	Gravedad Específica (H20=1)	2,00 - 2,30
Ph: (954) 246-8888	Ph: (450) 662-1212	Punto de fusión	N/A
MSDS PREPARADO POR:		Tarifa de Evaporación (Butyl Acetate=1)	N/A
El departamento de Asuntos Regu	ulatorios - Norteamérica	Solubilidad en el agua	Soluble
FECHA de REVISION (YYYY/MM	I/DD): 2005/09/19	pH (pasta/el líquido)	11,0 - 13,0
Obtenga el MSDS mas actual en	www.mapei.com	Aspecto y Olor	Polvo gris o blanco. Olor general de cemento.

VOC deliberado por (la Regla 1168, Distrito de Calidad del aire de Costa de Sur - California)

III - EVALUACION DE RIESGOS Componentes Arriesgados ( identidad específica guímica; nombres comunes):	OSHA (PEL)	ACGIH (TLV- TWA)	Otros Límites Recomendados	% Por ciento
Silice (CAS# 14808-60-7)	10mg/m <sup>3</sup>	0,1mg/m <sup>3</sup>	N/E	(de Opcional) 40 - 70
Cemento de Portland (CAS# 65997-15-1)	15mg/m³	10mg/m³	N/E	15 - 40
Carbonato de Calcio (CAS# 1317-65-3)	5mg/m³	10mg/m <sup>3</sup>	(Respirable dust only.)	5 - 10

Para California: Este Producto contiene sustancias químicas sabidas(conocidas) al estado de California para causar el cancer, defectos de nacimiento u otra toxicidad reproductive.

Todos los ingredientes están dentro de o exento del TSCA de EE. UU. y del DSL Canadiense.

(EE. UU) - HMIS (Sistema de Identificación de materiales peligrosos) Posición: Salud- 3 Fuego- 0 Reactividad- 0 Protección- E "\*" = Crónico (Canadá) - WHMIS (Información de Materiales peligrosos de Lugar de trabajo Sistema) Clasificaciones: E and D2A

#### **IV - TRANSPORTE**

Vía Terrestre - EE.UU. y Puerto Rico (DOT):Vía Marítima (IMDG):No regulado.No regulado.Vía Terrestre - Canadá (TDG):Vía Aérea (IATA):No regulado.No regulado.

#### V - DATOS DE RIESGO DE INCENDIO Y EXPLOSIÓN

 Punto de inflamación:
 N/A
 Límite Inferior Explosivo (%) N/A
 Límite Superior Explosivo (%) N/A

 Fuego Insólito y Peligros de Explosión Algunos productos de descomposición pueden ser dañinos.
 Medios De Extinción:
 N/A

No se quemará excepto bajo temperaturas extremas. El rocío de agua, el dióxido de carbón, químico seco o espuma.

#### **Procedimientos Especiales Contra incendios:**

Utilize equipo estándar contra incendios con aparato respiratorio integrado.

#### VI - DATOS DE REACTIVIDAD

ESTABILIDAD: Estable

stable Condiciones de Evitar: Ninguno sabido(conocido).

 Incompatibilidad (Materiales a Evitar):
 Agentes de oxidación fuertes, ácidos fuertes, y bases fuertes.

 Descomposición de Riesgo por Productos:
 Monóxido de carbono, dióxido de carbón, óxidos de nitrógeno, y otros compuestos no identificados orgánicos.

Polimerización: No ocurrirá. Condiciones de Evitar: Ninguno sabido(conocido).

#### **VII - DATOS DE RIESGO PARA LA SALUD**

Las rutas de entrada: ¿Inhalación? SÍ ¿Piel? SÍ ¿Ingestión? NO

#### Peligros para la salud:

Agudo: Inhalación o contacto puede causar irritación a ojos, piel, nariz o garganta en personas sensibles.

Crónico: Inhalación repetida (tiempo prolongado) de polvo puede resultar en silicosis

Cancerígeno: NTP - SÍ IARC - NO OSHA - NO Silice - NTP Rating 1

#### Signos y Síntomas de Exceso de exposición:

Piel seca, dermatitis, tos seca, ojos irritados por el polvo o cualquier otra condición adversa potencial relacionada a la naturaleza alcalina de cemento mojado.

#### Condiciones Médicas Que Pueden Ser Agravadas por Exposición:

Alergias, desordenes de la piel y respiratorias. Sensibilidad al producto.

#### **VIII - PROCEDIMIENTOS DE EMERGENCIA Y PRIMEROS AUXILIOS**

- Ojos: Sosteniendo el párpado abierto vierta agua fresca durante 15 minutos. Si la irritación persiste, busca atención médica inmediatamente.
- Piel: Evite el contacto con la piel. Quite la ropa contaminada. Lave el área afectada completamente con jabón y agua. Si la irritación persiste, busca la atención médica inmediata.
- Inhalación: Sacar al aire fresco si se exceden las concentraciónes permitidas de cualquiera de los ingredientes peligrosos. Si no esta respirando, personal especializado debe de iniciar respiración artificial y se debe de obtener atención médica de inmediato.

Ingestión: No induzca vomito. No dé nada por la boca a una persona inconsciente. Busque la atención médica inmediatamente.

#### **IX - PRECAUCIONES PARA MANEJO SEGURO Y EMPLEO**

#### Pasos para ser tomados si el Material se Escapa se Derramado:

Usar equipo protectivo. Contener la dispersión por medio de materials absorbentes y poner en un contenedor aprobado de desecho.

Método de Recogida de basuras: Elimínelo de acuerdo con los reglamentos medioambientales locales.

#### Precauciones para ser tomadas durante Manejo y Almacenaje:

Almacenar de manera de evitar condiciones polvorientas.

Otras Precauciones: Evite el contacto prolongado con la piel.

#### **X - MEDIDAS DE CONTROL**

#### Protección Respiratoria:

Al trabajar con producto seco y en ausencia de controles ambientales se recomienda utilizar una mascar respiratoria aprobada por NIOSH/MSHA. Controles administrativos o de ingeniería se deben de implementar para reducir la exposición al polvo.

Ventilación: Gases de	combustión Locales - Sólo use en áreas BIEN VENTILA	DAS. Mecánico -	Sólo use dispositivos intrínsecamente seguros.
Especial -	N/A	Otro -	N/A
Protección de Ojos:	Gafas de seguridad son necesarios para prevenir contac	cto con los ojos.	
<b>Guantes Protectores:</b>	Impenetrable. (Nitrile, caucho, o bien)		
Otro Equipo Protector:	Como sea necesario para minimizar el contacto con la p	iel.	

N/A="No Aplicable" N/E="No Establecido"

La información contenida aquí está basada en datos considerados exactos. Sin embargo, ninguna garantía es expresada o implicada en cuanto a la exactitud de estos datos o los resultados para ser obtenidos del uso del mismo. MAPEI no asume ninguna responsabilidad del daño corporal o daño de propiedad a compradores, usuarios, o a terceros causado por el material. Todos los usuarios asumen todo riesgo asociado con el empleo del material.

#### MATERIAL SAFETY DATA SHEET (ESSENTIALLY SIMILAR TO OSHA FORM 20, COMPLIES WITH 29CFR 1910:1200)

HAZARD RATING: HEALTH - 1, FIRE - 0, REACTIVITY - 0 MINIMAL - 0 SLIGHT - 1 MODERATE - 2 SERIOUS - 3 SEVERE - 4

#### **\*\*\*SECTION I: GENERAL INFORMATION\*\*\***

MANUFACTURED FOR: MKG SALES ASSOCIATES, INC. ADDRESS: 130 MILLER ROAD MEDFORD, NJ 08055 TELEPHONE NUMBER: 609-953-4700 DATE ISSUED/REVISED: April 6, 2005 EMERGENCY RESPONSE NUMBER: 800-255-3924 CHEM-TEL PRODUCT #: 4042640 PRODUCT NAME: ULTRA-ZYME ENZYMES WITH BACTERIAL ACTION CHEMICAL NAME: BACTERIAL CULTURES CHEMICAL FAMILY: LIQUID BACTERIAL/ENZYME DIGESTER

#### HAZARDOUS MATERIAL DESCRIPTION (PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) NONE \*\*\*SECTION II: HAZARDOUS INGREDIENTS\*\*\* AS LISTED IN EPA 40CFR PARTS 261 & 116 AND/OR MASS. DEQE CMR 670.00

CHEMICAL NAME	CAS NO.	% BY WEIGHT	HAZARD DATA
		NONE	

CONTAINS NO INGREDIENT LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC, NTP, OR OSHA.

\*\*\*SECTION III: PHYSICAL DATA\*\*\*

BOILING POINT/RANGE (F): COMPARABLE TO WATER SPECIFIC GRAVITY (WATER=1): 1.0 % VOLATILE BY VOLUME: GREATER THAN 90% EVAP. RATE (BUAC=1): COMPARABLE TO WATER (SLOWER) WEIGHT/GALLON (WATER=8.33#): 8.33# SOLUBILITY IN WATER: COMPLETE VAPOR PRESSURE (MM/HG): COMP TO WATER PHYSICAL STATE: OFF WHITE, MILKY LIQUID VAPOR DENSITY (AIR=1): COMPARABLE TO WATER (HEAVIER) ODOR: FRESH APPLE pH: 7-8

#### \*\*\*SECTION IV: FIRE AND EXPLOSION HAZARD DATA\*\*\*

FLASH POINT (METHOD USED): NONE FLAMMABLE LIMITS: LEL: NA UEL: NA FIRE EXTINGUISHING MEDIA: WATER FOG, FOAM, GAS (CO2/HALON), DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: NONE UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

#### \*\*\*SECTION V: HEALTH HAZARD DATA\*\*\*

THRESHOLD LIMIT VALUE: NOT ESTABLISHED PRIMARY ROUTES OF ENTRY: SKIN ABSORPTION EFFECTS OF OVEREXPOSURE: ....ACUTE - MAY CAUSE SLIGHT SKIN AND EYE IRRITATION. ....CHRONIC - MAY CAUSE SENSITIVITY TO SKIN IRRITATION AND DERMITITIS EMERGENCY AND FIRST AID PROCEDURES: ....INHALATION - NO HAZARD. ...EYES - FLUSH THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS APART. IF IRRITATION PERSISTS, GET MEDICAL HELP. ...SKIN - SEE "EYES." WASH THOROUGHLY WITH SOAP AND WATER ...INGESTION - DRINK LARGE QUANTITIES OF WATER. GET MEDICAL ATTENTION.

#### \*\*\*SECTION VI: REACTIVITY DATA\*\*\*

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: EXCESSIVE EXPOSURE TO SKIN OR EYES AND TEMPERATURES ABOVE 110°F MATERIALS TO AVOID: DO NOT MIX WITH OTHER CHEMICALS. STRONG ACIDS OR ALKALI MAY INACTIVATE BACTERIA CULTURES. HAZARDOUS DECOMPOSITION PRODUCTS: NONE

#### \*\*\*SECTION VII: SPILL OR LEAK PROCEDURES\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: RINSE AREA WITH WATER OR ABSORB WITH FLOOR ABSORBENT, SAWDUST OR RAGS. WASTE DISPOSAL: PRODUCT IS BIODEGRADABLE. FLUSH DOWN SANITARY SEWER OR PLACE IN TRASH RECEPTACLE FOR DISPOSAL.

#### \*\*\*SECTION VIII: SPECIAL PROTECTION INFORMATION\*\*\*

RESPIRATORY PROTECTION: NONE REQUIRED. VENTILATION TYPE: LOCAL EXHAUST ADEQUATE. PROTECTIVE GLOVES: RECOMMENDED. EYE PROTECTION: RECOMMENDED. OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED

#### \*\*\*SECTION IX: SPECIAL PRECAUTIONS\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID CONTACT WITH OPEN WOUNDS, EYES, EXCESSIVE SKIN CONTACT. DO NOT TAKE INTERNALLY. DO NOT STORE ABOVE 110°F OR IN DIRECT SUNLIGHT. KEEP FROM FREEZING. WASH HANDS AFTER USE. OTHER PRECAUTIONS: KEEP OUT OF THE REACH OF CHILDREN. KEEP CONTAINER CLOSED WHEN NOT IN USE.

## **SDS #:** 839.00 **Revision Date:** March 21, 2014

WARNING

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Universal Indicator Solution**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

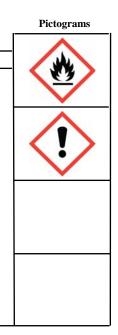
CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).



### SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Methyl red	845-10-3	$C_{15}H_{14}N_3O_2Na$	291.28	< 0.05%
Bromthymol blue, sodium salt	34722-90-2	$C_{27}H_{27}Br_{2}O_{5}S$	646.38	< 0.05%
Phenolphthalein	77-09-8	$NaC_{20}H_{14}O_4$	318.31	< 0.05%
Sodium hydroxide	1310-73-2	NaOH	39.997	< 0.05%
Ethyl alcohol, denatured	64-17-5	C <sub>2</sub> H <sub>5</sub> OH	46.07	55%
Water	7732-18-5	H <sub>2</sub> O	18.00	45%

Signal Word

#### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313). If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). If swallowed: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once, product contains denatured ethyl alcohol.

#### SECTION 5 — FIRE FIGHTING MEASURES

Class IC flammable liquid.	NFPA CODE
Flash point: 24 °C	H-2
When heated, releases flammable fumes.	F-3
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains. Keep container tightly closed and cool (P233+P235). Use explosion-proof electrical and ventilating equipment (P241). Take precautionary measures against static discharge (P243).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Will stain skin, clothing, and surfaces.

Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

The color of this solution depends entirely on the pH of the solution. Slight alcohol odor.

pH indicator solution.

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with open flame, sparks or other sources of ignition. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye irritation, nausea, dizziness, headache. Chronic effects: Liver damage, reproductive, teratogenic effects, carcinogen. Target organs: Eyes, skin, central nervous system, liver, ORL-MAN TLD<sub>0</sub>: 29 mg/kg (as phenolphthalein) IHL-RAT LC<sub>50</sub>: 20,000 ppm/10H (as ethyl alcohol) SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

reproductive system.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Ethyl alcohol solution. Hazard class: 3, Flammable liquid. UN number: UN1170.

#### N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

Not listed.

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 21, 2014

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#### PASTE SOLDERING FLUX

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure, or Accident - Call INFOTRAC - Day or Night: 1-800-535-5053 THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD) IMPORTANT: Read this MSDS before handling & disposing of this product. Pass this information on to employees, customers and users of this product.

PRODUCT IDENTIFICATION						
DOT Shipping name:	CONSUMER (	COMMODITY, ORM-D	(	CAS NO.:	ME	XTURE
Chemical Family: CHLOR	IDE		UN/NA	#:N/R		
<b>DOT Hazard Class:</b>	N/R		]	DATE OF ISSU	E: 08/	04
SECTION I - HAZARDOUS INGREDIENTS/EXPOSURE LIMITS						
Hazardous Ingredients:	CAS #	TLV/PEL	AGENCY	TYPE		SARA-313(% Range)
ZINC CHLORIDE	7646-85-7	1 MG/M3	ACGIH	TWA		10-25%
AMMONIUM CHLORIDE	12125-02-9	10 MG/M3	AC	GIH	TWA	<10%
SECTION II - EMERGENCY AND FIRST AID PROCEDURES						

#### WARNING: CORROSIVE

EYE CONTACT: If product is splashed into eyes, flush eyes with clean water for at least 15 minutes and **seek medical attention**. SKIN CONTACT: Remove contaminated shoes and clothing and cleanse affected areas thoroughly by washing with mild soap and water and **seek medical attention**.

INHALATION: (breathing) Not expected to be a hazard under normal operating conditions..

**INGESTION:** (swallowing) If swallowed, seek emergency medical attention. Do not induce vomiting. Offer victim water or milk. Do not give dilutents to someone who is unconscious or having trouble swallowing.

### SECTION III - HEALTH HAZARDS / ROUTES OF ENTRY

EYE CONTACT: Eye contact with one or more components of this product can lead to conjunctivitus and corneal burns.

SKIN CONTACT: Contact with the skin can lead to severe burns or dermatitis and ulceration depending on duration of exposure.

SKIN ABSORPTION: Components of this product are not known to be skin absorbing agents.

**INHALATION:** (breathing) Not expected to be a hazard under normal operating conditions.

INGESTION: (swallowing) Ingestion can lead to stomach pains, nausea, vomiting, bloody diarrhea, edema, albuminuria, and shock.

#### **SECTION IV - SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Use with adequate ventilation to maintain airborne concentrations below established exposure limits (see section I), Additional ventilation or exhaust systems may be required.

**RESPIRATORY PROTECTION**: None required under routine conditions of use. The use of respiratory protection is advised when concentrates exceed the established exposure limits (see Section I).

**PROTECTIVE GLOVES**: The use of gloves impermeable to the specific material handled is advised to prevent possible irritation. **EYE PROTECTION**: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

### **SECTION V - REACTIVITY DATA**

#### STABILITY: Stable

**INCOMPATIBILITY**: (materials to avoid) This product is incompatible with: Oxidizing agents, strong acids and bases potassium, bromine pentaflouoride, nitrogen trioxide, cydrogen cyanide, iodine pentafluoride and potassium chlorate.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur

### SECTION VI - SPILL OR LEAK PROCEDURES

**PRECAUTIONS IN CASE OF LEAK OR SPILL**: Keep all sources of ignition and hot metal surfaces away from spill/release. Stop spill/release if it can be done without risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section IV). Prevent spilled material from entering sewers, storm drains, and natural waterways Spilled material may be absorbed by an appropriate absorbent **WASTE DISPOSAL METHOD**: Dispose of product in accordance with local, county, state, and federal regulations.



### PASTE SOLDERING FLUX

#### SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Avoid getting this product ON YOU or IN YOU. Wash hands after handling this product. Do not eat or drink while handling this product. Store product in properly labeled, closed containers. Always use this product in areas where adequate ventilation is provided.

### SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Extinguish with dry chemical, CO2, or a universal type foam.

FIRE AND EXPLOSION HAZARD: May decompose during contact with flames, heating elements, or in combustion engines releasing irritating gases. Container may explode if heated due to resulting pressure rise.

**FIRE FIGHTING PROCEDURES**: Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section IV). Stop spill/release if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

### **SECTION IX - PHYSICAL DATA**

APPROXIMATE BOILING POINT (DEG F): >200 SPECIFIC GRAVITY (68 F): >1 RELATIVE EVAPORATION RATE (ESTIMATED): <1 VAPOR PRESSURE @20C mmHg (CALCULATED): <1 PER CENT VOLATILE: NONE FLASH POINT (TCC, DEG F): >300 PER CENT SOLUBILITY IN WATER: NEGLIGIBLE

	SECTION X	- OTHER REGULATORY DAT	۲A
SARA	SECTIONA	HMIS	
	SECTION 302: NONE	Health:	1
	SECTION 311 & 312: ACUTE	Flammability:	0
	SECTION 313: See Section I.I	Reactivity:	0
TSCA RCRA	All components are in full compliance with the TSCA inventory.	CALIFORNIA PROPOSITION 65 NOT LISTED CERCLA	
	Waste material would be a D002	ZINC CHLORIDE RQ: 1000 LBS.	
CARCI	NOGENICITY:		

NOT LISTED with NTP or IARC.

#### NOTICE

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## MATERIAL SAFETY DATA SHEET

PRODUCT: NATIONAL VACUUM PUMP OIL **NFPA CODES:** н F R PRODUCT CODE: VPO A 1 0 CHEMICAL NAME/FAMILY: PETROLEUM LUBRICATING OIL DISTRIBUTOR: NATIONAL REFRIGERANTS, INC. ADDRESS: 11401 Roosevelt Boulevard Phila., Pa. 19154 **INFORMATION:** 800-262-0012 EMERGENCY: 800-424-9300 DATE: 10/2009 **PREPARER:** Ray Madariaga

## **COMPOSITION/INFORMATION ON INGREDIENTS**

Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

## **HAZARDOUS IDENTIFICATION**

#### **Emergency Overview**

Appearance and Odor: Clear light brown. Liquid at room temperature. Slight hydrocarbon. Health Hazards: High-pressure injection under the skin may cause serious damage including local necrosis. Safety Hazards: Not classified as flammable but will burn. Environmental Hazards: Not classified as dangerous for the environment.

Health Hazards: Not expected to be a health hazard when used under normal conditions. Health Hazards Inhalation: Under normal conditions of use, this is not expected to be a primary route of

exposure.

**Skin Contact**: Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Low toxicity if swallowed.

**Other Information**: High-pressure injection under the skin may cause serious damage including local necrosis. Used oil may contain harmful impurities.

**Signs and Symptoms**: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Ingestion may result in nausea, vomiting and/or diarrhea.

**Aggravated Medical Condition**: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

Environmental Hazards: Not classified as dangerous for the environment.

Additional Information: Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



## FIRST AID MEASURES

General Information: Not expected to be a health hazard when used under normal conditions.

**Inhalation**: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice. **Skin Contact**: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the effected person should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.

**Eye Contact**: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. **Ingestion**: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

Advice to Physician: Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimize tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anesthetics, and wide exploration is essential.

## FIRE AND EXPLOSION HAZARD DATA

Clear fire area of all non-emergency personnel.

Flash point: Typical 400 °C / 752 °F (COC)

Upper / lower: Typical 1 - 10 %(V)(based on mineral oil)

Flammability or Explosion limits: Typical 1 - 10 %(V) (based on mineral oil)

Auto ignition temperature : > 320 °C / 608 °F

**Specific Hazards** : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

**Suitable Extinguishing Media**: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use a jet stream of water.

**Protective Equipment for Firefighters**: Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

## ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Exposure Controls/Personal Protection Section of this Material Safety Data Sheet. See Disposal Considerations Section for information on disposal.

Observe all relevant local and international regulations.

**Protective measures**: Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Clean Up Methods**: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. **Additional Advice**: Local authorities should be advised if significant spillages cannot be contained.



## HANDLING AND STORAGE

**General Precautions**: Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Handling**: Avoid prolonged or repeated contact with skin. Avoid inhaling vapor and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

**Storage**: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F

**Recommended Materials**: For containers or container linings, use mild steel or high density polyethylene. **Unsuitable Materials**: PVC.

Additional Information: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Occupational Exposure Limits**

### Material Source Type ppm mg/m3 Notation

Oil mist, mineral	ACGIH TWA (Mist.)	5 mg/m3
Oil mist, mineral	ACGIH STEL (Mist.)	10 mg/m3

**Exposure Controls**: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

**Personal Protective Equipment**: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

**Respiratory Protection**: No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate /organic gases and vapors [boiling point >65 °C (149 °F)].

Hand Protection: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection: Wear safety glasses or full face shield if splashes are likely to occur.

Protective Clothing: Skin protection not ordinarily required beyond standard issue work clothes.

**Monitoring Methods**: Monitoring of the concentration of substances in the breathing zone of workers, or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

**Environmental Exposure Controls**: Minimize release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation. PAGE 3 VP



## PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear light brown. Liquid at room temperature. Odor: Slight hydrocarbon. pH : Not applicable. Initial Boiling Point and Boiling Range: > 280 °C / 536 °F estimated value(s) Pour point: Typical -15 °C / 5 °F Flash point: Typical 400 °C / 752 °F (COC) Upper / lower Flammability or Explosion limits: Typical 1 - 10 %(V) (based on mineral oil) Auto-ignition temperature : > 320 °C / 608 °F Vapor pressure : < 0.5 Pa at 20 °C / 68 °F (estimated value(s) Specific gravity : Typical 0.87 Density: Typical 7.45 g/cm3 Water solubility: Negligible. n-octanol/water partition coefficient (log Pow): > 6 (based on information on similar products) Kinematic viscosity: Typical 40 mm2/s at 40 °C / 104 °F Vapor density (air=1): > 1 (estimated value(s)) Evaporation rate (nBuAc=1): Data not available

## STABILITY AND REACTIVITY

Stability: Stable.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Hazardous decomposition products are not expected to form during normal storage.

## TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on data on the components and the toxicology of similar products.

Acute Oral Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat

Acute Dermal Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Acute Inhalation Toxicity: Not considered to be an inhalation hazard under normal conditions of use.

**Skin Irritation**: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

**Eye Irritation**: Expected to be slightly irritating.

**Respiratory Irritation**: Inhalation of vapors or mists may cause irritation.

Sensitization: Not expected to be a skin sensitizer.

Repeated Dose Toxicity: Not expected to be a hazard.

Mutagenicity: Not considered a mutagenic hazard.

**Carcinogenicity**: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

Reproductive and Developmental Toxicity: Not expected to be a hazard.



Additional Information: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

## **ECOLOGICAL INFORMATION**

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity: Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 >100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

**Mobility**: Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

**Persistence/degradability**: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment. **Bioaccumulation**: Contains components with the potential for bioaccumulation.

**Other Adverse Effects**: Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone potential or global warming potential.

## **DISPOSAL CONSIDERATIONS**

**Material Disposal**: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

**Container Disposal**: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

**Local Legislation**: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## TRANSPORTATION INFORMATION

### US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180. **IMDG** This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.



## **REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### **Federal Regulatory Status**

#### **Notification Status**

EINECSAll components listed or polymer exempt.TSCAAll components listed.DSLAll components listed.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

### State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## **DISCLAIMER**

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## **SAFETY DATA SHEET**

Revision date 16-Dec-2016

Version 30

Supersedes Date: 16-Dec-2016

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code

007.0260949

**Product Name** 

VAL LTX DRYWALL PRMR TW

Other means of identification No information available

Recommended use of the chemical and restrictions on use Waterborne paint

Details of the supplier of the safety data sheet See section 16 for more information

The Valspar Corporation PO Box 1461 Minneapolis, MN 55440

E-mail address

msds@valspar.com

Emergency telephone number United States of America 1-888-345-5732 American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands 1-800-255-3924

## Section 2: HAZARDS IDENTIFICATION

#### **Classification**

Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements



#### Signal word

DANGER

#### HAZARD STATEMENTS

May cause cancer Causes damage to organs through prolonged or repeated exposure

#### PREVENTION

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

#### RESPONSE

IF exposed or concerned: Get medical advice/attention.

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### STORAGE

Store locked up.

#### DISPOSAL

Dispose of contents/containers in accordance with local regulations.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable.

#### **OTHER HAZARDS**

Not applicable.

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
Quartz	14808-60-7	5 - 10
Titanium dioxide	13463-67-7	5 - 10
Silica, cristobalite	14464-46-1	1 - 3

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## Section 4: FIRST AID MEASURES

#### First Aid Measures

#### General advice

IF exposed or concerned: Get medical advice/attention.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Skin Contact

Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

#### Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

#### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

#### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO2, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

#### Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid breathing vapors or mists. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing.

#### For emergency responders

Use personal protection recommended in Section 8.

#### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

#### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

#### Section 7: HANDLING AND STORAGE

#### Precautions for safe handling

#### Advice on safe handling

Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

#### General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

#### Incompatible materials

Strong bases. Strong oxidizing agents.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Limits

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	TWA: (30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA total dust TWA: (250)/(%SiO2 + 5) mppcf TWA respirable fraction TWA: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
Silica, cristobalite 14464-46-1	TWA: 0.025 mg/m³ respirable fraction	TWA: (1/2)(30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA total dust TWA: (1/2)(250)/(%SiO2 + 5) mppcf TWA respirable fraction TWA: (1/2)(10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 25 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

#### Appropriate engineering controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin and body protection

Wear suitable protective clothing.

#### Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

#### **Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### **Thermal Protection**

No information available

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor Color Odor Threshold pH value Melting point/freezing point Boiling point / boiling range flash point evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor Pressure vapor density Density (lbs per US gallon) specific gravity Solubility(ies) Partition coefficient Autoignition temperature	liquid No information available Slight white No information available No information available
Autoignition temperature	
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available

#### **Other information**

#### Section 10: STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2).

## Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Not applicable Skin Contact Not applicable Ingestion Not applicable

#### Numerical measures of toxicity - Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	= 500 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Silica, cristobalite 14464-46-1	-	-	-

#### Numerical measures of toxicity - Product Information

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Carcinogenicity**

According to IARC, Volume 93, no significant exposure to primary particles of titanium dioxide is thought to occur from use in paints since the pigment is bound to other materials.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	Х
Titanium dioxide 13463-67-7		Group 2B		Х
Silica, cristobalite 14464-46-1	A2	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen.

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans. Group 2B - Possibly Carcinogenic to Humans.

NTP (National Toxicology Program)

Known - Known Carcinogen.

**OSHA** (Occupational Safety and Health Administration of the US Department of Labor) X - Present.

Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive Toxicity Specific target organ toxicity (singl	Not applicable Not applicable Not applicable Not applicable May cause cancer Not applicable e Not applicable
exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	Causes damage to organs through prolonged or repeated exposure Not applicable

#### Section 12: ECOLOGICAL INFORMATION

<u>Ecotoxicity</u> Environmental precautions

Prevent product from entering drains.

#### Persistence and degradability No information available

Bioaccumulation No information available

#### Mobility

No information available

#### Other adverse effects

No information available

#### Section 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

containers must be scrapped or reconditioned.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal. Empty

#### Section 14: TRANSPORT INFORMATION

14.1 UN/ID no 14.2 Proper shipping name DOT Not regulated IMDG Not regulated IATA Not regulated

No information available

14.3 Hazard Class

14.4 Packing Group

14.5 Environmental hazard Not applicable

14.6 Special Provisions

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

#### Section 15: REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

All components are listed or exempt from listing. All components are listed or exempt from listing

#### US Federal Regulations

Chemical Name	SARA 313 - Threshold Values %	Hazardous air pollutants (HAPs) content
Ceramic materials and wares, chemicals	1	
66402-68-4		
5 - 10		

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### US State Regulations

#### Rule 66 status of product

Not photochemically reactive.

#### California Proposition 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### U.S. EPA Label information

EPA Pesticide registration number Not applicable

#### U.S. State Right-to-Know Regulations

Chemical Name
Water
7732-18-5
Proprietary Non-Hazardous Ingredient - Proprietary CAS
Quartz 14808-60-7
Titanium dioxide 13463-67-7
Proprietary Non-Hazardous Ingredient - Proprietary CAS
Ceramic materials and wares, chemicals 66402-68-4
Silica, cristobalite 14464-46-1

#### Section 16: OTHER INFORMATION

HMIS Health hazards * = Chronic Health Haza Flammability Physical hazards Personal Protection	ard 1 0 X	
Supplier Address Valspar Consumer Headquarters 8725 W. Higgins Rd. Suite 1000 Chicago, IL 60631 773-628-5500	The Valspar Corporation 4999 36th St. Grand Rapids, MI 49512 800-253-3957	Valspar Plasti-Kote 1636 Shawsone Dr. Mississauga, Ontario L4W 1N7 905-671-8333
Prepared By	Product Ste	ewardship
Revision date Revision Note	16-Dec-201 No informa	6 tion available

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

#### End of Safety Data Sheet

## valspar

## **Material Safety Data Sheet**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	009.0065735.007
Product Name:	VAL LTX SAT FLR LT GRA
Product Use:	Paint product.
Print date:	23/Mar/2010
Revision Date:	10/Mar/2010

#### **Company Identification**

The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

24-Hour Medical Emergency	1-888-345-5732
Phone:	

## 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

Eye Contact: None known.

### Skin Contact:

None known.

Ingestion: None known.

#### Inhalation:

• May cause irritation of respiratory tract.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name	Approx.	Chemical Name
CAS-No.	Weight %	

## **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

13463-67-7
------------

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water.

#### Skin Contact:

Wash off with plenty of water.

#### Ingestion:

Get medical attention if symptoms occur

#### Inhalation:

Move to fresh air. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	5 - 10	15 mg/m <sup>3</sup> TWA dust total		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m³ TWA			

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	24 mmHg @ 77ºF (25ºC)
Vapor density (air = 1.0):	0.6
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	9.69
Specific Gravity:	1.16
Evaporation rate (butyl acetate = 1.0):	0.1
Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined

## **10. STABILITY AND REACTIVITY**

## **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility:

Hazardous Polymerization: Hazardous Decomposition Products: Stable under normal conditions. None known. Avoid water-reactive materials, heat or contact with peroxides or other catalysts. None anticipated. Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

J	Approx. Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE 13463-67-7	5 - 10	> 10000 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

3	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
	Weight %	Evidence	Human Data	Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	5 - 10			Monograph 47 [1989]

Ingredient Name	Approx.	NTP Known	NTP Suspect	NTP Evidence of
CAS-No.	Weight %	Carcinogens	Carcinogens	Carcinogenicity
TITANIUM DIOXIDE 13463-67-7	5 - 10			male rat-negative; female rat-negative; male mice-negative; female mice-negative

0	Weight %		OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	5 - 10	Present		

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

#### 14. TRANSPORTATION INFORMATION

#### **U.S. Department of Transportation**

Proper Shipping Name: PAINT, NOT REGULATED

## **14. TRANSPORTATION INFORMATION**

#### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

## International Air Transport Association (IATA):

Proper Shipping Name: PAINT, NOT REGULATED

#### International Maritime Organization (IMO):

Proper Shipping Name: PAINT, NOT REGULATED

## **15. REGULATORY INFORMATION**

## U.S. FEDERAL REGULATIONS:

SARA 311/312 Hazard Class:	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

TITANIUM DIOXIDE

13463-67-7

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN PROPRIETARY INERT WATER Trade Secret Trade Secret 7732-18-5

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS Codes	
Health:	1*
Flammability:	1
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT -Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	23/Mar/2010
Revision Date:	10/Mar/2010

## valspar

## **Material Safety Data Sheet**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	007.0098824
Product Name:	SIG INT S/GLS BASE 4
Product Use:	Paint product.
Print date:	13/Mar/2009
Revision Date:	06/Feb/2009

**Company Identification** The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

24-Hour Medical Emergency	1-888-345-5732
Phone:	

## 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

Eye Contact: None known.

Skin Contact:

None known.

Ingestion: None known.

#### Inhalation:

• Harmful by inhalation.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).

#### Carcinogens:

• Cancer hazard. Contains material which can cause cancer.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

## **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
SILICA 14808-60-7	1 - 5	QUARTZ (Si02)

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water.

#### Skin Contact:

Wash off with plenty of water.

#### Ingestion:

Get medical attention if symptoms occur

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit): Lower explosive limit: Upper explosive limit: Autoignition temperature: Sensitivity to impact: Sensitivity to static discharge: Hazardous combustion products: 205°F (96°C) not determined % not determined -°F (°C) no Sensitivity to static discharge is not expected. See Section 10.

#### Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

## Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

0	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
SILICA 14808-60-7	1 - 5	Respirable. Listed. Total dust. Listed.		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
SILICA 14808-60-7	1 - 5	0.05 mg/m <sup>3</sup> Respirable fraction.			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Lower explosive limit: Upper explosive limit: Autoignition temperature: Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 not determined not determined not determined 8.71 1.04 0.1 205°F (96°C) not determined % not determined % not determined -°F (°C)

## **10. STABILITY AND REACTIVITY**

Stability:

Stable under normal conditions.

## **10. STABILITY AND REACTIVITY**

Conditions to Avoid: Incompatibility:

Hazardous Polymerization: Hazardous Decomposition Products: None known. Avoid water-reactive materials, heat or contact with peroxides or other catalysts. None anticipated. Carbon monoxide and carbon dioxide. This product contains diarylide pigments. While they are not dangerous, they are, however, susceptible to decomposition to monoazoics and dichlorobenzidine at temperatures above 200 C. Consequently, use at temperatures above 200 C should be avoided.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

#### Mutagens/Teratogens/Carcinogens:

Cancer hazard. Contains material which can cause cancer.

Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding brown by the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dust or respirable particles in spray mist.

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
SILICA 14808-60-7	1 - 5		Listed: October 1, 1988 Carcinogenic.

Ingredient Name	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
CAS-No.	Weight %	Evidence	Human Data	Sufficient Animal Data
SILICA 14808-60-7	1 - 5	Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources)		

0	Approx.	NTP Known	NTP Suspect	NTP Evidence of
	Weight %	Carcinogens	Carcinogens	Carcinogenicity
SILICA 14808-60-7	1 - 5	Known carcinogen.		

<b>J</b>		OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
SILICA 14808-60-7	1 - 5			Group A2 Suspected human carcinogen.

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

#### **U.S. Department of Transportation**

Proper Shipping Name:	PAINT, NOT REGULATED
UN ID Number:	NRPAIN

#### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

#### International Air Transport Association (IATA):

Proper Shipping Name:	PAINT, NOT REGULATED
UN ID Number:	NRPAIN

#### International Maritime Organization (IMO):

Proper Shipping Name:	U	PÀINT, NOT REGULATED
Non-Bulk UN ID Number:		NRPAIN

## **15. REGULATORY INFORMATION**

## **U.S. FEDERAL REGULATIONS:**

SARA 311/312 Hazard Class:	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

SILICA	14808-60-7
Additional Non-Hazardous Materials	
WATER PROPRIETARY RESIN	7732-18-5 Trade Secret

#### **California Proposition 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	1
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 13/Mar/2009 06/Feb/2009

# valspar if it matters, we're on it.®

## **Material Safety Data Sheet**

## 1. PRODUCT AND COMPANY IDENTIFICATION

#### **Product Identification**

007.0203261

**Product ID:** Product Name: Product Use: Print date: Revision Date:

VALSPAR LTX CHALKBRD BLACK Paint product. 22/Mar/2014 21/Mar/2014

#### **Company Identification**

The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

Manufacturer's Phone: 1-847-520-8580

24-Hour Medical Emergency 1-888-345-5732 Phone:

## 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

Eye Contact: None known.

Skin Contact: None known.

Ingestion: None known.

Inhalation: None known. Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

3	Approx. Weight %	Chemical Name
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Carbon black

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water.

#### Skin Contact:

Wash off with plenty of water.

#### Ingestion:

Get medical attention if symptoms occur

#### Inhalation:

Get medical attention, if symptoms develop or persist. Move to fresh air.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

205
96
not determined
not determined
not determined
no
Sensitivity to static discharge is not expected.
See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

## Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

0	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA			

## 9. PHYSICAL PROPERTIES

Odor: Normal for this product type. Physical State: liauid pH: not determined Vapor pressure: 24 mmHg @ 77°F (25°C) Vapor density (air = 1.0): 0.6 Boiling point: 212°F (100°C) Solubility in water: not determined Coefficient of water/oil distribution: not determined Density (lbs per US gallon): 9.71 Specific Gravity: 1.16 Evaporation rate (butyl acetate = 1.0): 0.1 Flash point (Fahrenheit): 205 Flash point (Celsius): 96

## 9. PHYSICAL PROPERTIES

Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature:

## **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility:

Hazardous Polymerization: Hazardous Decomposition Products:

Sensitivity to static discharge:

Stable under normal conditions. None known. Avoid water-reactive materials, heat or contact with peroxides or other catalysts. None anticipated. Carbon monoxide and carbon dioxide.

Sensitivity to static discharge is not expected.

## **11. TOXICOLOGICAL INFORMATION**

3	Approx. Weight %	NIOSH - Selected LD50s and LC50s
C.I. PIGMENT BLACK 7 1333-86-4		> 15400 mg/kg Oral LD50 Rat > 3 g/kg Dermal LD50 Rabbit

not determined

not determined

not determined

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

IARC has classified carbon black as possibly carcinogenic to humans (Group 2B).

5	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
	Weight %	Evidence	Human Data	Sufficient Animal Data
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1			Monograph 65 [1996]

0	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Present		

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

## **14. TRANSPORTATION INFORMATION**

## U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No
15. REGULATORY INFORMATION	

#### U.S. FEDERAL REGULATIONS: SARA 311/312 Hazard Class:

Acute:	no
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

#### **Additional Non-Hazardous Materials**

WATER	7732-18-5
PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## **16. OTHER INFORMATION**

HMIS Codes	
Health:	0*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	22/Mar/2014
Revision Date:	21/Mar/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

## **Product Identification**

#### 007.0168215

**Product ID:** Product Name: Product Use: Print date: Revision Date:

VAL LX STN BLK PRMR TW Paint product. 11/Jun/2014 21/Mar/2014

## Company Identification

The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

#### Eye Contact:

Phone:

• May cause eye irritation.

#### Skin Contact:

• Causes mild skin irritation.

Ingestion:

None known.

#### Inhalation:

- May cause irritation of respiratory tract.
- Harmful by inhalation.

#### Target Organ and Other Health Effects:

• Kidney injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Prolonged exposure over TLV may produce pneumoconiosis.
- Chronic exposure may cause permanent damage of health.
- Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).

#### Carcinogens:

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
PROPRIETARY INERT	10 - 15	PROPRIETARY INERT
TITANIUM DIOXIDE 13463-67-7	5 - 10	Titanium dioxide
PROPRIETARY INERT	5 - 10	PROPRIETARY INERT
ZINC OXIDE 1314-13-2	1 - 5	ZINC OXIDE
SILICA 14808-60-7	.1 - 1	QUARTZ (Si02)

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water.

#### Skin Contact:

Wash off with plenty of water.

#### Ingestion:

Get medical attention if symptoms occur

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	10 - 15	15 mg/m <sup>3</sup> TWA dust		
		total		
		5 mg/m <sup>3</sup> TWA respirable		
		fraction		
TITANIUM DIOXIDE	5 - 10	15 mg/m <sup>3</sup> TWA dust		
13463-67-7		total		
PROPRIETARY INERT	5 - 10	Respirable. Listed.		
		Total dust. Listed.		
ZINC OXIDE	1 - 5	15 mg/m <sup>3</sup> TWA dust		
1314-13-2		total		
		5 mg/m <sup>3</sup> TWA fume		
		5 mg/m <sup>3</sup> TWA respirable		
		fraction		
SILICA	.1 - 1	(30)/(%SiO2 + 2) mg/m <sup>3</sup>		
14808-60-7		TWA, total dust		
		(250)/(%SiO2 + 5) mppcf		
		TWA, respirable fraction		
		(10)/(%SiO2 + 2) mg/m <sup>3</sup>		
		TWA, respirable fraction		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY INERT	10 - 15	2 mg/m <sup>3</sup> TWA			
		particulate matter			
		containing no			
		asbestos and <1%			
		crystalline silica,			
		respirable fraction			
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m <sup>3</sup> TWA			
PROPRIETARY INERT	5 - 10	2 mg/m <sup>3</sup> TWA			
		particulate matter			
		containing no			
		asbestos and <1%			
		crystalline silica,			
		respirable fraction			
ZINC OXIDE	1 - 5	2 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> STEL		
1314-13-2		respirable fraction	respirable fraction		
SILICA	.1 - 1	0.025 mg/m <sup>3</sup> TWA			
14808-60-7		respirable fraction			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature:

Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined not determined 10.7 1.28 0.1 205 96 not determined not determined not determined

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Silicon dioxide. Carbon monoxide and carbon dioxide. Halogenated compounds Metal oxide fumes.

Sensitivity to static discharge:

## 11. TOXICOLOGICAL INFORMATION

Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name	Approx.	NIOSH - Selected LD50s and LC50s
CAS-No.	Weight %	
TITANIUM DIOXIDE	5 - 10	> 10000 mg/kg Oral LD50 Rat
13463-67-7		
ZINC OXIDE	1 - 5	> 5000 mg/kg Oral LD50 Rat
1314-13-2		
SILICA	.1 - 1	= 500 mg/kg Oral LD50 Rat
14808-60-7		

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA. Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dust or respirable particles in spray mist.

5	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
SILICA	.1 - 1		Listed. initial date 10/1/88 -
14808-60-7			carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	5 - 10			Monograph 47 [1989]
SILICA 14808-60-7	.1 - 1	Monograph 68 [1997]		

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
SILICA	.1 - 1	Known Human Carcinogen	
14808-60-7		-	

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	5 - 10	Present		
SILICA 14808-60-7	.1 - 1	Present		A2 Suspected Human Carcinogen

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## **14. TRANSPORTATION INFORMATION**

#### **U.S. Department of Transportation**

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No

## **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
ZINC OXIDE 1314-13-2	1 - 5		YES	

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret
ZINC OXIDE	1314-13-2
TITANIUM DIOXIDE	13463-67-7

#### Additional Non-Hazardous Materials

WATER	7732-18-5
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

## INTERNATIONAL REGULATIONS - Chemical Inventories

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

HMIS Codes	
Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### Preparation Information:

Prepared By:	Regulatory Affairs Department
Print date:	11/Jun/2014
Revision Date:	21/Mar/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Produc	ct Identif	ication

Product ID: Product Name:

## 007.0222145

VAL ULT IN-EX GLS BLK Paint product. 12/Feb/2014 28/Jan/2014

## **Company Identification**

Product Use:

**Revision Date:** 

Print date:

Phone:

The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

#### Eye Contact:

• Moderate eye irritation

#### Skin Contact:

• Causes skin irritation.

#### Ingestion:

• Irritation of the mouth, throat, and stomach.

#### Inhalation:

• Causes respiratory tract irritation.

#### Target Organ and Other Health Effects:

- Kidney injury may occur.
- Liver injury may occur.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

	Approx. Weight %	Chemical Name
C.I. PIGMENT BLACK 7 1333-86-4	1 - 5	Carbon black
BENZOPHENONE 119-61-9	.1 - 1	Benzophenone

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
C.I. PIGMENT BLACK 7 1333-86-4	1 - 5	3.5 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
C.I. PIGMENT BLACK 7 1333-86-4	1 - 5	3.5 mg/m <sup>3</sup> TWA			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined

## 9. PHYSICAL PROPERTIES

Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature: not determined 8.78 1.05 0.1 205 96 not determined not determined not determined

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Avoid water-reactive materials, heat or contact with peroxides or other catalysts.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
C.I. PIGMENT BLACK 7		> 15400 mg/kg Oral LD50 Rat
1333-86-4 BENZOPHENONE		> 3 g/kg Dermal LD50 Rabbit = 3535 mg/kg Dermal LD50 Rabbit
119-61-9		> 10 g/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

IARC has classified carbon black as possibly carcinogenic to humans (Group 2B).

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
BENZOPHENONE 119-61-9	.1 - 1		listed 22-Jun-12

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
C.I. PIGMENT BLACK 7 1333-86-4	1 - 5			Monograph 65 [1996]
BENZOPHENONE 119-61-9	.1 - 1			Monograph 101 [in preparation]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
C.I. PIGMENT BLACK 7 1333-86-4	1 - 5	Present		

## 12. ECOLOGICAL DATA

No information on ecology is available.

#### **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

#### **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

SARA 311/312 Hazard Class:	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

C.I. PIGMENT BLACK 7

1333-86-4

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
WATER	7732-18-5

#### **California Proposition 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

## **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	12/Feb/2014
Revision Date:	28/Jan/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	007.0161751
Product Name:	SIG INT S/GLS RED BASE
Product Use:	Paint product.
Print date:	27/Jan/2014
Revision Date:	27/Jan/2014

**Company Identification** The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency Phone:	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

#### Eye Contact:

• Moderate eye irritation

#### Skin Contact:

• Causes skin irritation.

#### Ingestion:

• Irritation of the mouth, throat, and stomach.

#### Inhalation:

• Causes respiratory tract irritation.

#### Target Organ and Other Health Effects:

- Kidney injury may occur.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Prolonged exposure over TLV may produce pneumoconiosis.
- Chronic exposure may cause permanent damage of health.
- Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).

#### Carcinogens:

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
PROPRIETARY INERT	5 - 10	PROPRIETARY INERT
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
SILICA 14808-60-7	.1 - 1	QUARTZ (Si02)
BENZOPHENONE 119-61-9	.1 - 1	Benzophenone

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

#### **Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determi
Upper explosive limit (%):	not determi
Autoignition temperature:	not determi
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity t
Hazardous combustion products:	See Section

205 96 not determined not determined no Sensitivity to static discharge is not expected. See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	5 - 10	15 mg/m <sup>3</sup> TWA dust		
		total		
		5 mg/m <sup>3</sup> TWA respirable		
		fraction		
PROPRIETARY INERT	1 - 5	15 mg/m <sup>3</sup> TWA dust		
		total		
		5 mg/m <sup>3</sup> TWA respirable		
		fraction		
SILICA	.1 - 1	(30)/(%SiO2 + 2) mg/m <sup>3</sup>		
14808-60-7		TWA, total dust		
		(250)/(%SiO2 + 5) mppcf		
		TWA, respirable fraction		
		(10)/(%SiO2 + 2) mg/m <sup>3</sup>		
		TWA, respirable fraction		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY INERT	5 - 10	10 mg/m <sup>3</sup>			
		Inhalable particles.			
		3 mg/m <sup>3</sup>			
		Respirable			
		particles.			
PROPRIETARY INERT	1 - 5	2 mg/m <sup>3</sup> TWA			
		particulate matter			
		containing no			
		asbestos and <1%			
		crystalline silica,			
		respirable fraction			
SILICA	.1 - 1	0.025 mg/m <sup>3</sup> TWA			
14808-60-7		respirable fraction			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature:

Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined not determined 9.16 1.1 0.1 205 96 not determined not determined not determined

## **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility:

Hazardous Polymerization: Hazardous Decomposition Products:

Sensitivity to static discharge:

Stable under normal conditions. None known. Avoid water-reactive materials, heat or contact with peroxides or other catalysts. None anticipated. Carbon monoxide and carbon dioxide.

Sensitivity to static discharge is not expected.

## **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
SILICA	.1 - 1	= 500 mg/kg Oral LD50 Rat
14808-60-7		
BENZOPHENONE	.1 - 1	= 3535 mg/kg Dermal LD50 Rabbit
119-61-9		> 10 g/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding brown by the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dust or respirable particles in spray mist.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
SILICA	.1 - 1		Listed. initial date 10/1/88 -
14808-60-7			carcinogen
BENZOPHENONE	.1 - 1		listed 22-Jun-12
119-61-9			

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
SILICA	.1 - 1	Monograph 68 [1997]		
14808-60-7				
BENZOPHENONE	.1 - 1			Monograph 101 [in
119-61-9				preparation]

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
SILICA	.1 - 1	Known Human Carcinogen	
14808-60-7			

0	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
SILICA 14808-60-7	.1 - 1	Present		A2 Suspected Human Carcinogen

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT. NOT REGULATED

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

## International Air Transport Association (IATA):

Proper shipping name:

NOT REGULATED

#### International Maritime Organization (IMO):

Proper shipping name: Marine Pollutant NOT REGULATED

## **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret

#### **Additional Non-Hazardous Materials**

WATER
PROPRIETARY RESIN

7732-18-5 Trade Secret

#### **California Proposition 65:**

WARNING: This product contains chemicals known to the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

#### **HMIS Codes**

Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	27/Jan/2014
Revision Date:	27/Jan/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	007.0391655
Product Name:	VAL ULT INT SAT ULTWHT/A
Product Use:	Paint product.
Print date:	28/May/2014
Revision Date:	28/May/2014
Company Identification	Architectural Contings Division

The Valspar Corporation - Architectural Coatings Division 1191 Wheeling Road Wheeling, IL 60090

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

#### Eye Contact:

Phone:

• Moderate eye irritation

#### Skin Contact:

• Causes skin irritation.

#### Ingestion:

• Irritation of the mouth, throat, and stomach.

#### Inhalation:

• Causes respiratory tract irritation.

#### Target Organ and Other Health Effects:

- Kidney injury may occur.
- Liver injury may occur.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

0	Approx. Weight %	Chemical Name
TITANIUM DIOXIDE 13463-67-7	15 - 20	Titanium dioxide
BENZOPHENONE 119-61-9	.1 - 1	Benzophenone

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

0	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	15 mg/m <sup>3</sup> TWA dust total		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	10 mg/m³ TWA			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined

## 9. PHYSICAL PROPERTIES

Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature: not determined 10.59 1.27 0.1 205 96 not determined not determined not determined

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## **11. TOXICOLOGICAL INFORMATION**

Ingredient Name	Approx.	NIOSH - Selected LD50s and LC50s
CAS-No.	Weight %	
TITANIUM DIOXIDE	15 - 20	> 10000 mg/kg Oral LD50 Rat
13463-67-7		
BENZOPHENONE	.1 - 1	= 3535 mg/kg Dermal LD50 Rabbit
119-61-9		> 10 g/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
BENZOPHENONE	.1 - 1		listed 22-Jun-12
119-61-9			

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE	15 - 20	Endenide	Human Data	Monograph 47 [1989]
BENZOPHENONE 119-61-9	.1 - 1			Monograph 101 [in preparation]

0	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	15 - 20	Present		

## 12. ECOLOGICAL DATA

No information on ecology is available.

#### **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

#### **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

SARA 311/312 Hazard Class:	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

TITANIUM DIOXIDE

13463-67-7

#### **Additional Non-Hazardous Materials**

WATER	7732-18-5
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 28/May/2014 28/May/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	007.0391663
Product Name:	VAL ULT INT S/G WHITE
Product Use:	Paint product.
Print date:	30/May/2014
Revision Date:	28/May/2014
<b>Company Identification</b> The Valspar Corporation - A 1191 Wheeling Road	rchitectural Coatings Division

5,	
Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

<b>Primary Routes</b>	s of Exposure:
Inhalation	-
Ingestion	
Skin absorption	

Wheeling, IL 60090

#### **Eye Contact:**

Phone:

• Moderate eye irritation

#### Skin Contact:

• Causes skin irritation.

#### Ingestion:

• Irritation of the mouth, throat, and stomach.

#### Inhalation:

• Causes respiratory tract irritation.

#### Target Organ and Other Health Effects:

- Kidney injury may occur.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).
- Chronic exposure may cause permanent damage of health.

#### Carcinogens:

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
TITANIUM DIOXIDE 13463-67-7	15 - 20	Titanium dioxide
SILICA 14808-60-7	1 - 5	QUARTZ (Si02)
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
BENZOPHENONE 119-61-9	.1 - 1	Benzophenone

If this section is blank there are no hazardous components per OSHA guidelines.

#### 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

#### **Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

#### 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

#### **Unusual fire and explosion hazards:** None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Avoid contact with eyes.

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### Personal Protective Equipment

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE	15 - 20	15 mg/m <sup>3</sup> TWA dust		
13463-67-7		total		
SILICA	1 - 5	(30)/(%SiO2 + 2) mg/m <sup>3</sup>		
14808-60-7		TWA, total dust		
		(250)/(%SiO2 + 5) mppcf		
		TWA, respirable fraction		
		(10)/(%SiO2 + 2) mg/m <sup>3</sup>		
		TWA, respirable fraction		
PROPRIETARY INERT	1 - 5	20 mppcf or 80 mg/m <sup>3</sup> /		
		%SiO2		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	10 mg/m <sup>3</sup> TWA			

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
SILICA	1 - 5	0.025 mg/m <sup>3</sup> TWA			
14808-60-7		respirable fraction			
PROPRIETARY INERT	1 - 5	1 mg/m <sup>3</sup> TWA			
		respirable fraction			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature:

Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined not determined 10.32 0.1 205 96 not determined not determined not determined not determined

## **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility: Hazardous Polymerization: Hazardous Decomposition Products: Stable under normal conditions. None known. Strong oxidizing agents None anticipated. Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE 13463-67-7	15 - 20	> 10000 mg/kg Oral LD50 Rat
SILICA 14808-60-7	1 - 5	= 500 mg/kg Oral LD50 Rat
PROPRIETARY INERT	1 - 5	> 5000 mg/kg Oral LD50 Rat
BENZOPHENONE 119-61-9	.1 - 1	= 3535 mg/kg Dermal LD50 Rabbit > 10 g/kg Oral LD50 Rat

## Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA. Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
SILICA 14808-60-7	1 - 5		Listed. initial date 10/1/88 - carcinogen
BENZOPHENONE 119-61-9	.1 - 1		listed 22-Jun-12

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	15 - 20			Monograph 47 [1989]
SILICA 14808-60-7	1 - 5	Monograph 68 [1997]		
BENZOPHENONE 119-61-9	.1 - 1			Monograph 101 [in preparation]

0	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
SILICA 14808-60-7	1 - 5	Known Human Carcinogen	

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	15 - 20	Present		
SILICA 14808-60-7	1 - 5	Present		A2 Suspected Human Carcinogen

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

## **14. TRANSPORTATION INFORMATION**

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No
15. REGULATORY INFORMATION	

#### U.S. FEDERAL REGULATIONS: SARA 311/312 Hazard Class:

SARA STIJSTZ HAZATU GIASS.	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

SILICA	14808-60-7
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
PROPRIETARY INERT	Trade Secret

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
WATER	7732-18-5

#### **California Proposition 65:**

WARNING: This product contains chemicals known to the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

## 16. OTHER INFORMATION

HMIS Codes

Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 30/May/2014 28/May/2014

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## **Material Safety Data Sheet**

6UC

#### PRODUCT AND COMPANY IDENTIFICATION 1.

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation 1000 Lake Road Medina. OH 44256	<b>400.0002002.076</b> T-2 FLAT BLACK 6UC Paint product. 04/Sep/2013 04/Sep/2013
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency	1-888-345-5732

## 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

Phone:

Severe eye irritation

#### Skin Contact:

- Causes skin irritation.
- Dermatitis
- · May cause defatting of the skin.
- · May cause sensitization by skin contact.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- · Harmful if swallowed.

Product ID: 400.0002002.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia
- May cause sensitization by inhalation.

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Blood disorders
- Kidney injury may occur.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Possible sensitization.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	Acetone
PROPANE 74-98-6	15 - 20	Propane
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	Methylisobutyl ketone
BUTANE 106-97-8	5 - 10	Butane
BUTYL ACETATE 123-86-4	5 - 10	n-Butyl acetate
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	Ethyl 3-ethoxypropionate
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Carbon black
COBALT OCTOATE 136-52-7	.1 - 1	Hexanoic acid, 2-ethyl-, cobalt(2+) salt

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding
	and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

## 7. HANDLING AND STORAGE

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	100 ppm TWA 410 mg/m³ TWA		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m³ TWA		
PROPRIETARY INERT	1 - 5	20 mppcf or 80 mg/m <sup>3</sup> / %SiO2		
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	20 ppm TWA	75 ppm STEL		
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA			

## 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%): Autoignition temperature:

Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 5.0 -44°F (-42°C) not determined not determined 6.3 .76 5.6 -31 -35 1 13 not determined

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

## **11. TOXICOLOGICAL INFORMATION**

Ingredient Name	-	NIOSH - Selected LD50s and LC50s
CAS-No.	Approx. Weight %	NIOSH - Selected EDS0S and ECS0S
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
METHYL ISOBUTYL KETONE 108-10-1	10 - 15	= 2080 mg/kg Oral LD50 Rat = 8.2 mg/L Inhalation LC50 Rat 4 h > 16000 mg/kg Dermal LD50 Rabbit
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	> 15400 mg/kg Oral LD50 Rat > 3 g/kg Dermal LD50 Rabbit

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

IARC has classified carbon black as possibly carcinogenic to humans (Group 2B). The International Agency For Research On Cancer (IARC) has determined that Cobalt and Cobalt Compounds are substances that are possibly carcinogenic to humans (IARC group 2B).

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
METHYL ISOBUTYL	10 - 15		carcinogen, initial date 11/04/11
KETONE			
108-10-1			

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
METHYL ISOBUTYL KETONE 108-10-1	10 - 15			Monograph 101 [in preparation]
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1			Monograph 65 [1996]
COBALT OCTOATE 136-52-7	.1 - 1			Monograph 52 [1991]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
METHYL ISOBUTYL KETONE 108-10-1	10 - 15			A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Present		
COBALT OCTOATE 136-52-7	.1 - 1	Present		

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
International Maritime Organization (IMO):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
Marine Pollutant	No

## **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40			5000
METHYL ISOBUTYL KETONE 108-10-1	10 - 15		form R reporting required for 1.0% de minimis concentration	5000
BUTYL ACETATE 123-86-4	5 - 10			5000
COBALT OCTOATE 136-52-7	.1 - 1		YES	10

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

## **U.S. STATE REGULATIONS:**

#### **Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

BUTYL ACETATE	123-86	6-4
PROPRIETARY INERT	Tra	de Secret
ETHYL 3-ETHOXYPROPIONATE		763-69-9
METHYL ISOBUTYL KETONE		108-10-1
DIMETHYL KETONE- EXEMPT SOLVENT		67-64-1
PROPANE	74-98-6	
BUTANE	106-97-8	

#### Additional Non-Hazardous Materials

PROPRIETARY RESIN

Trade Secret

#### **California Proposition 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information: Prepared By: Print date: Revision Date:

Regulatory Affairs Department 04/Sep/2013 04/Sep/2013

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## **Material Safety Data Sheet**

## 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification Product ID:

400.0002302.076

Product Name: Product Use: Print date: Revision Date: HP-12 WHITE 1500 DEGREE 6UC Paint product. 10/Dec/2013 10/Dec/2013

#### **Company Identification**

The Valspar Corporation 1000 Lake Road Medina, OH 44256

Manufacturer's Phone:	1-330-725-4511

24-Hour Medical Emergency	1-888-345-5732	
Phone:		

## 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Harmful if absorbed through skin.
- Can be absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Liver injury may occur.
- Kidney injury may occur.
- Hearing loss.
- Blood disorders

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

## 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	Acetone
PROPANE 74-98-6	15 - 20	Propane
ISOBUTYL ACETATE 110-19-0	10 - 15	Isobutyl acetate
BUTANE 106-97-8	10 - 15	Butane
TITANIUM DIOXIDE 13463-67-7	5 - 10	Titanium dioxide
ACETIC ACID ESTER 88230-35-7	1 - 5	Hexanol, acetate, branched and linear
N-BUTYL ALCOHOL 71-36-3	1 - 5	n-Butyl alcohol
NAPHTHA 64742-89-8	1 - 5	SOLVENT NAPHTHA, PETROLEUM, LIGHT ALIPH
XYLENE 1330-20-7	1 - 5	Xylenes (o-, m-, p- isomers)
ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding
	and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

## Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

## 7. HANDLING AND STORAGE

## 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE-	35 - 40	1000 ppm TWA		
EXEMPT SOLVENT 67-64-1		2400 mg/m <sup>3</sup> TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
ISOBUTYL ACETATE 110-19-0	10 - 15	150 ppm TWA 700 mg/m³ TWA		
TITANIUM DIOXIDE 13463-67-7	5 - 10	15 mg/m <sup>3</sup> TWA dust total		
N-BUTYL ALCOHOL 71-36-3	1 - 5	100 ppm TWA 300 mg/m³ TWA		
XYLENE	1 - 5	100 ppm TWA		
1330-20-7		435 mg/m <sup>3</sup> TWA		
ETHYLBENZENE	.1 - 1	100 ppm TWA		
100-41-4		435 mg/m³ TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
ISOBUTYL ACETATE 110-19-0	10 - 15	150 ppm TWA			
BUTANE 106-97-8	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m <sup>3</sup> TWA			
N-BUTYL ALCOHOL 71-36-3	1 - 5	20 ppm TWA			
XYLENE 1330-20-7	1 - 5	100 ppm TWA	150 ppm STEL		
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm TWA	125 ppm STEL		

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	5.0
Boiling point:	-44°F (-42°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	6.33
Specific Gravity:	.76
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
ISOBUTYL ACETATE 110-19-0	10 - 15	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
BUTANE 106-97-8	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h
TITANIUM DIOXIDE 13463-67-7	5 - 10	> 10000 mg/kg Oral LD50 Rat
N-BUTYL ALCOHOL 71-36-3	1 - 5	= 3400 mg/kg Dermal LD50 Rabbit = 790 mg/kg Oral LD50 Rat = 8000 ppm Inhalation LC50 Rat 4 h > 17.7 mg/L Inhalation LC50 Rat 4 h
NAPHTHA 64742-89-8	1 - 5	= 3000 mg/kg Dermal LD50 Rabbit = 5000 mg/kg Oral LD50 Mouse
XYLENE 1330-20-7	1 - 5	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
ETHYLBENZENE 100-41-4	.1 - 1	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
ETHYLBENZENE	.1 - 1		Listed. initial date 6/11/04 -
100-41-4			carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	5 - 10			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77 [2000]

3	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	5 - 10	Present		

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	.1 - 1	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds):

Proper Shipping Name:

CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1

# **15. REGULATORY INFORMATION**

#### U.S. FEDERAL REGULATIONS:

Marine Pollutant

Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			
DIMETHYL KETONE-	35 - 40			5000
EXEMPT SOLVENT				
67-64-1				
ISOBUTYL ACETATE	10 - 15			5000
110-19-0				
N-BUTYL ALCOHOL	1 - 5		form R reporting required	5000
71-36-3			for 1.0% de minimis	
			concentration	
XYLENE	1 - 5		form R reporting required	100
1330-20-7			for 1.0% de minimis	
			concentration	

No

ETHYLBENZENE	.1 - 1	form R reporting required 1000	
100-41-4		for 1.0% de minimis	
		concentration	

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

DIMETHYL KETONE- EXEMPT SOLVENT	67-64-1
ACETIC ACID ESTER	88230-35-7
ISOBUTYL ACETATE	110-19-0
XYLENE	1330-20-7
TITANIUM DIOXIDE	13463-67-7
N-BUTYL ALCOHOL	71-36-3
NAPHTHA	64742-89-8
PROPANE	74-98-6
BUTANE	106-97-8

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	10/Dec/2013
Revision Date:	10/Dec/2013

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	
Product Name:	

# 400.0002209.076

FL-9 CAUTION ORANGE 6UC Paint product. 05/Sep/2013 05/Sep/2013

#### **Company Identification**

Product Use:

**Revision Date:** 

Print date:

The Valspar Corporation 1000 Lake Road Medina, OH 44256

Manufacturer's Phone:	1-330-725-4511

24-Hour Medical Emergency	1-888-345-5732
Phone:	

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

• Moderate eye irritation

#### **Skin Contact:**

- May cause defatting of the skin.
- Causes skin irritation.
- Harmful if absorbed through skin.
- May cause sensitization by skin contact.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

Product ID: 400.0002209.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia
- May cause sensitization by inhalation.
- May cause pulmonary edema.
- May cause damage to nasal and respiratory passages.
- May cause chemical pneumonia.

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Kidney injury may occur.
- Cardiac arrhythmias
- Liver injury may occur.
- Unconsciousness

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Contains formaldehyde which is considered a potential carcinogen by the Occupational Health and Safety Administration.
- Possible sensitization.

#### Carcinogens:

• Cancer hazard. Contains material which can cause cancer.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
NAPHTHA 64742-89-8	30 - 35	SOLVENT NAPHTHA, PETROLEUM, LIGHT ALIPH
PROPRIETARY INERT	20 - 25	PROPRIETARY INERT
PROPANE 74-98-6	15 - 20	Propane
BUTANE 106-97-8	10 - 15	Butane
BUTYL ACETATE 123-86-4	1 - 5	n-Butyl acetate
PROPRIETARY RESIN	1 - 5	PROPRIETARY RESIN
FORMALDEHYDE 50-00-0	0099	Formaldehyde

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### **Eye Contact:**

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

#### **Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area. Place unconscious person on the side in the recovery position and ensure breathing.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	9.5
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

# Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	20 - 25	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA respirable fraction		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m <sup>3</sup> TWA		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA 710 mg/m <sup>3</sup> TWA		
FORMALDEHYDE 50-00-0	0099	0.75 ppm TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY INERT	20 - 25	10 mg/m³ TWA			

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA	200 ppm STEL		
FORMALDEHYDE 50-00-0	0099			0.3 ppm Ceiling	

# 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4
Boiling point:	-44°F (-42°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	7.14
Specific Gravity:	.86
Evaporation rate (butyl acetate = 1.0):	1.4
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	9.5
Autoignition temperature:	not determined
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility: Hazardous Polymerization: Hazardous Decomposition Products: Stable under normal conditions. Heat. Strong oxidizing agents None anticipated. Carbon monoxide and carbon dioxide. Oxides of sulfur. Nitrogen compounds.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
NAPHTHA	30 - 35	= 3000 mg/kg Dermal LD50 Rabbit
64742-89-8		= 5000 mg/kg Oral LD50 Mouse
PROPANE	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
74-98-6		

# 11. TOXICOLOGICAL INFORMATION

BUTANE	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h
106-97-8		
BUTYL ACETATE	1 - 5	= 10768 mg/kg Oral LD50 Rat
123-86-4		= 390 ppm Inhalation LC50 Rat 4 h
		> 17600 mg/kg Dermal LD50 Rabbit
FORMALDEHYDE	0099	= 0.578 mg/L Inhalation LC50 Rat 4 h
50-00-0		= 500 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible mutagen

Cancer hazard. Contains material which can cause cancer.

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
FORMALDEHYDE 50-00-0	0099		Listed. initial date 1/1/88 - carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
FORMALDEHYDE	0099	Supplement 7 [1987]		
50-00-0		Monograph 62 [1995]		
		Supplement 7 [1987]		

Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
0099		Reasonably Anticipated To Be A Human Carcinogen
	0	0099

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
FORMALDEHYDE	0099	Present	Irritant and potential	A2 Suspected Human
50-00-0			cancer hazard - see 29	Carcinogen
			CFR 1910.1048	

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

# **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
BUTYL ACETATE 123-86-4	1 - 5			5000
FORMALDEHYDE 50-00-0	0099	EPCRA RQ = 100 lb	form R reporting required for 0.1% de minimis concentration	100

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### **Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE	74-98-6
BUTANE	106-97-8
PROPRIETARY INERT	Trade Secret
BUTYL ACETATE	123-86-4
PROPRIETARY RESIN	Trade Secret
NAPHTHA	64742-89-8

#### **Additional Non-Hazardous Materials**

DYED PROPRIETARY POLYMER	UNKNOWN
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### 16. OTHER INFORMATION

#### **HMIS Codes**

Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	05/Sep/2013
Revision Date:	05/Sep/2013

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date:	<b>400.0000615.076</b> 615 BUMPER CHROME 6UC Paint product. 13/Nov/2013 15/Oct/2013
<b>Company Identification</b> The Valspar Corporation 1000 Lake Road Medina, OH 44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

Primary Routes	s of Exposure:
Inhalation	-
Ingestion	
Skin absorption	

#### **Eye Contact:**

- Moderate eye irritation
- Risk of serious damage to eyes.

#### **Skin Contact:**

• Causes skin irritation.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### **Acute Other Health Effects:**

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Liver injury may occur.
- Cardiac arrhythmias
- Kidney injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Teratogens:

- May cause birth defects.
- Female reproductive toxin.

# **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
ETHYLBENZENE 100-41-4	30 - 35	Ethyl benzene
PROPANE 74-98-6	15 - 20	Propane
TOLUENE 108-88-3	10 - 15	Toluene
BUTANE 106-97-8	10 - 15	Butane
STODDARD SOLVENT 8052-41-3	1 - 5	Stoddard solvent
ALUMINUM 7429-90-5	1 - 5	Aluminum

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### Eye Contact:

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	9.5
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding
	and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Oxidizing Material

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

This coating contains aluminum pigment, store in a dry area. Aluminum may react with water, acids and caustics slowly producing gas and heat. In a sealed drum this may cause a pressure build-up over a period of time and drum should be vented before opening. Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Other Personel Protection Data:**

Usual industrial work clothes. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
ETHYLBENZENE 100-41-4	30 - 35	100 ppm TWA 435 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m <sup>3</sup> TWA		
TOLUENE 108-88-3	10 - 15	200 ppm TWA	= 300 ppm Ceiling	
STODDARD SOLVENT 8052-41-3	1 - 5	2900 mg/m <sup>3</sup> TWA 500 ppm TWA		
ALUMINUM 7429-90-5	1 - 5	15 mg/m <sup>3</sup> TWA dust total 5 mg/m <sup>3</sup> TWA respirable fraction		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
ETHYLBENZENE 100-41-4	30 - 35	100 ppm TWA	125 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
TOLUENE 108-88-3	10 - 15	20 ppm TWA			Can be absorbed through the skin.
BUTANE 106-97-8	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
STODDARD SOLVENT 8052-41-3	1 - 5	100 ppm TWA			
ALUMINUM 7429-90-5	1 - 5	1 mg/m <sup>3</sup> TWA respirable fraction			

# 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%):	Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 5 -44°F (-42°C) not determined not determined 6.32 .76 2.24 -31 -35 1 9.5
Upper explosive limit (%):	
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	This product may react with water, acids, and caustics,
	slowly producing gas and heat. Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s	
ETHYLBENZENE 100-41-4	30 - 35	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat	
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h	
TOLUENE 108-88-3	10 - 15	= 12.5 mg/L Inhalation LC50 Rat 4 h = 12124 mg/kg Dermal LD50 Rat = 636 mg/kg Oral LD50 Rat = 8390 mg/kg Dermal LD50 Rabbit > 26700 ppm Inhalation LC50 Rat 1 h	
BUTANE 106-97-8	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h	

#### Mutagens/Teratogens/Carcinogens:

May cause birth defects. Female reproductive toxin.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
TOLUENE	10 - 15	Listed. initial date 1/1/91 -	
108-88-3		developmental toxicity	

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
ETHYLBENZENE 100-41-4	30 - 35		Listed. initial date 6/11/04 - carcinogen
TOLUENE 108-88-3	10 - 15	Listed. Initial date 8/1/09 - female reproductive toxicity	

5	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
	Weight %	Evidence	Human Data	Sufficient Animal Data
ETHYLBENZENE 100-41-4	30 - 35			Monograph 77 [2000]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	30 - 35	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

# **15. REGULATORY INFORMATION**

#### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
ETHYLBENZENE 100-41-4	30 - 35		form R reporting required for 1.0% de minimis concentration	1000
TOLUENE 108-88-3	10 - 15		form R reporting required for 1.0% de minimis concentration	1000
ALUMINUM 7429-90-5	1 - 5		Form R reporting required for 1.0 % de minimis concentration	

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

STODDARD SOLVENT	8052-41-3
TOLUENE	108-88-3
ETHYLBENZENE	100-41-4
ALUMINUM	7429-90-5
PROPANE	74-98-6
BUTANE	106-97-8

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product

Photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

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#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 13/Nov/2013 15/Oct/2013

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

2U

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation 1000 Lake Road Medina, OH 44256	<b>405.0000198.076</b> 198 HOT ROD YELLOW Paint product. 23/Jan/2014 23/Jan/2014
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

· Severe eye irritation

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Can be absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

Product ID: 405.0000198.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia
- Acute Other Health Effects:
- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Liver injury may occur.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name	Approx.	Chemical Name
CĂS-No.	Weight %	
DIMETHYL KETONE-	40 - 45	Acetone
EXEMPT SOLVENT		
67-64-1		
PROPANE	10 - 15	Propane
74-98-6		
XYLENE	5 - 10	Xylenes (o-, m-, p- isomers)
1330-20-7		
BUTANE	5 - 10	Butane
106-97-8		
ETHYL 3-	1 - 5	Ethyl 3-ethoxypropionate
ETHOXYPROPIONATE		
763-69-9		
ETHYL ACETATE	1 - 5	Acetic acid ethyl ester
141-78-6		
ETHYLBENZENE	1 - 5	Ethyl benzene
100-41-4		
METHYL ETHYL KETONE	1 - 5	Methyl ethyl ketone
78-93-3		
PROPRIETARY RESIN	1 - 5	PROPRIETARY RESIN
TITANIUM DIOXIDE	1 - 5	Titanium dioxide
13463-67-7		

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Oxidizing Material

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	10 - 15	1000 ppm TWA 1800 mg/m³ TWA		
XYLENE 1330-20-7	5 - 10	100 ppm TWA 435 mg/m <sup>3</sup> TWA		
ETHYL ACETATE 141-78-6	1 - 5	1400 mg/m <sup>3</sup> TWA 400 ppm TWA		
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA 435 mg/m³ TWA		
METHYL ETHYL KETONE 78-93-3	1 - 5	200 ppm TWA 590 mg/m³ TWA		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> TWA dust total		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
XYLENE 1330-20-7	5 - 10	100 ppm TWA	150 ppm STEL		
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
ETHYL ACETATE 141-78-6	1 - 5	400 ppm TWA			
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA	125 ppm STEL		
METHYL ETHYL KETONE 78-93-3	1 - 5	200 ppm TWA	300 ppm STEL		
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup> TWA			

# 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%):	Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 5.0 -44°F (-42°C) not determined not determined 6.44 .77 6.2 -31 -35 1 1
Autoignition temperature:	not determined
5 i	

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

# Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

Sensitivity to static discharge:

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h
XYLENE 1330-20-7	5 - 10	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat
ETHYL ACETATE 141-78-6	1 - 5	= 5620 mg/kg Oral LD50 Rat > 18000 mg/kg Dermal LD50 Rabbit > 20 mL/kg Dermal LD50 Rabbit
ETHYLBENZENE 100-41-4	1 - 5	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat
METHYL ETHYL KETONE 78-93-3	1 - 5	= 2737 mg/kg Oral LD50 Rat = 32 g/m <sup>3</sup> Inhalation LC50 Mouse 4 h = 6480 mg/kg Dermal LD50 Rabbit
PROPRIETARY RESIN	1 - 5	> 5 g/kg Oral LD50 Rat
TITANIUM DIOXIDE 13463-67-7	1 - 5	> 10000 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
ETHYLBENZENE 100-41-4	1 - 5		Listed. initial date 6/11/04 - carcinogen

0	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
ETHYLBENZENE 100-41-4	1 - 5			Monograph 77 [2000]
TITANIUM DIOXIDE 13463-67-7	1 - 5			Monograph 47 [1989]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	1 - 5	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans
TITANIUM DIOXIDE 13463-67-7	1 - 5	Present		

# 12. ECOLOGICAL DATA

No information on ecology is available.

# 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

#### **14. TRANSPORTATION INFORMATION**

#### **U.S. Department of Transportation**

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
International Maritime Organization (IMO):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
Marine Pollutant	No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

La sura d'a se l'Alla sura s	A		0404.040	
Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			
DIMETHYL KETONE-	40 - 45			5000
EXEMPT SOLVENT				
67-64-1				
XYLENE	5 - 10		form R reporting required	100
1330-20-7			for 1.0% de minimis	
			concentration	
ETHYL ACETATE	1 - 5			5000
141-78-6				

# **15. REGULATORY INFORMATION**

ETHYLBENZENE	1 - 5	f	form R reporting required	1000
100-41-4		f	for 1.0% de minimis	
			concentration	
METHYL ETHYL KETONE	1 - 5			5000
78-93-3				

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE	74-98-6
BUTANE	106-97-8
ETHYL ACETATE	141-78-6
ETHYLBENZENE	100-41-4
XYLENE	1330-20-7
ETHYL 3-ETHOXYPROPIONATE	763-69-9
DIMETHYL KETONE- EXEMPT SOLVENT	67-64-1
PROPRIETARY RESIN	Trade Secret
METHYL ETHYL KETONE	78-93-3
TITANIUM DIOXIDE	13463-67-7

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	23/Jan/2014
Revision Date:	23/Jan/2014

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

6U

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation	<b>410.0065025.076</b> VAL65025 PREM SATIN SUMPTUOUS PURPLE Paint product. 31/Mar/2013 08/Feb/2013
1000 Lake Road Medina, OH  44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- May cause defatting of the skin.
- Causes skin irritation.
- Harmful if absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

Product ID: 410.0065025.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- May cause frostbite

#### Target Organ and Other Health Effects:

- Cardiac arrhythmias
- Blood disorders
- Causes headache, drowsiness or other effects to the central nervous system.
- Kidney injury may occur.
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	Acetone
PROPANE 74-98-6	15 - 20	Propane
BUTANE 106-97-8	5 - 10	Butane
BUTYL ACETATE 123-86-4	5 - 10	n-Butyl acetate
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	Ethylene glycol monopropyl ether
ISOBUTYL ACETATE 110-19-0	1 - 5	Isobutyl acetate
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

# 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m³ TWA		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA 700 mg/m³ TWA		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> TWA dust total		
PROPRIETARY INERT	1 - 5	20 mppcf or 80 mg/m <sup>3</sup> / %SiO2		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup> TWA			

# 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%): Upper explosive limit (%):	Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 4 -44°F (-42°C) not determined not determined 6.4 .77 5.6 -31 -35 1 1
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Hazardous Decomposition Products: Sensitivity to static discharge:	Carbon monoxide and carbon dioxide. Subject to static discharge hazards. Please see
Hazardous Polymerization:	None anticipated.
Incompatibility:	Strong oxidizing agents
Conditions to Avoid:	Heat.
Stability:	Stable under normal conditions.

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name Approx. CAS-No. Weight %	NIOSH - Selected LD50s and LC50s
---	----------------------------------

# **11. TOXICOLOGICAL INFORMATION**

DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 μL/kg Dermal LD50 Rabbit
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
TITANIUM DIOXIDE 13463-67-7	1 - 5	> 10000 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

0	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
	Weight %	Evidence	Human Data	Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	1 - 5			Monograph 47 [1989]

0	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	1 - 5	Present		

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### International Air Transport Association (IATA):

UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1

# **15. REGULATORY INFORMATION**

#### U.S. FEDERAL REGULATIONS:

Marine Pollutant

Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			
DIMETHYL KETONE-	40 - 45			5000
EXEMPT SOLVENT				
67-64-1				
BUTYL ACETATE	5 - 10			5000
123-86-4				
ETHYLENE GLYCOL	1 - 5		YES	
MONOPROPYL ETHER				
2807-30-9				
ISOBUTYL ACETATE	1 - 5			5000
110-19-0				

No

#### SARA 311/312 Hazard Class:

es
es
es
0
es

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

BUTYL ACETATE	123-86-4	
TITANIUM DIOXIDE	13463-67-7	7
PROPRIETARY INERT	Trade Secret	
ISOBUTYL ACETATE	110-19-0	
ETHYLENE GLYCOL MONOPROPYL ET	HER	2807-30-9
DIMETHYL KETONE- EXEMPT SOLVEN	Т	67-64-1
PROPANE	74-98-6	
BUTANE	106-97-8	
DIMETHYL KETONE- EXEMPT SOLVEN PROPANE	T 74-98-6	

#### Additional Non-Hazardous Materials

**PROPRIETARY RESIN** 

Trade Secret

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### **Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

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#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	31/Mar/2013
Revision Date:	08/Feb/2013

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

6U

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification	
Product ID:	410.0065054.076
Product Name:	VAL65054 PREM PRIMER WHITE
Product Use:	Paint product.
Print date:	30/Dec/2013
Revision Date:	30/Dec/2013
<b>Company Identification</b> The Valspar Corporation 1000 Lake Road Medina, OH 44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

· Severe eye irritation

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Can be absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

Product ID: 410.0065054.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia
- Acute Other Health Effects:
- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Prolonged exposure over TLV may produce pneumoconiosis.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	Acetone
PROPANE 74-98-6	15 - 20	Propane
BUTANE 106-97-8	5 - 10	Butane
XYLENE 1330-20-7	5 - 10	Xylenes (o-, m-, p- isomers)
TITANIUM DIOXIDE 13463-67-7	5 - 10	Titanium dioxide
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
BARIUM METABORATE 13701-59-2	1 - 5	Barium metaborate
MINERAL SPIRITS 64742-47-8	1 - 5	Petroleum distillates, hydrotreated light
ISOBUTYL ACETATE 110-19-0	1 - 5	Isobutyl acetate
ETHYLBENZENE 100-41-4	1 - 5	Ethyl benzene

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Oxidizing Material

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
XYLENE 1330-20-7	5 - 10	100 ppm TWA 435 mg/m <sup>3</sup> TWA		
TITANIUM DIOXIDE 13463-67-7	5 - 10	15 mg/m <sup>3</sup> TWA dust total		
PROPRIETARY INERT	1 - 5	15 mg/m <sup>3</sup> TWA dust total 5 mg/m <sup>3</sup> TWA respirable fraction		
BARIUM METABORATE 13701-59-2	1 - 5	0.5 mg/m³ TWA Ba		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA 700 mg/m³ TWA		
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA 435 mg/m <sup>3</sup> TWA		

# ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	500 ppm TWA	750 ppm STEL		uesignations
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
XYLENE 1330-20-7	5 - 10	100 ppm TWA	150 ppm STEL		
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m <sup>3</sup> TWA			
PROPRIETARY INERT	1 - 5	2 mg/m <sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica, respirable fraction			
BARIUM METABORATE 13701-59-2	1 - 5	2 mg/m <sup>3</sup> TWA inhalable fraction 0.5 mg/m <sup>3</sup> TWA Ba	6 mg/m <sup>3</sup> STEL inhalable fraction		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA	125 ppm STEL		

# 9. PHYSICAL PROPERTIES

Odor: Physical State:	Normal for this product type. Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	5.1
Boiling point:	-44°F (-42°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	6.77
Specific Gravity:	.81
Evaporation rate (butyl acetate = $1.0$ ):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

# **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility: Hazardous Polymerization: Hazardous Decomposition Products: Stable under normal conditions. Heat. Strong oxidizing agents None anticipated. Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
XYLENE 1330-20-7	5 - 10	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
TITANIUM DIOXIDE 13463-67-7	5 - 10	> 10000 mg/kg Oral LD50 Rat
BARIUM METABORATE 13701-59-2	1 - 5	= 3800 mg/kg Oral LD50 Rat
MINERAL SPIRITS 64742-47-8	1 - 5	> 2000 mg/kg Dermal LD50 Rabbit > 5.2 mg/L Inhalation LC50 Rat 4 h > 5000 mg/kg Oral LD50 Rat
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
ETHYLBENZENE 100-41-4	1 - 5	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
ETHYLBENZENE	1 - 5		Listed. initial date 6/11/04 -
100-41-4			carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	5 - 10			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	1 - 5			Monograph 77 [2000]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	5 - 10	Present		
ETHYLBENZENE 100-41-4	1 - 5	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

# 15. REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS:

Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			

# **15. REGULATORY INFORMATION**

DIMETHYL KETONE-	35 - 40		5000
EXEMPT SOLVENT			
67-64-1			
XYLENE	5 - 10	form R reporting required	100
1330-20-7		for 1.0% de minimis	
		concentration	
BARIUM METABORATE	1 - 5	YES	
13701-59-2			
ISOBUTYL ACETATE	1 - 5		5000
110-19-0			
ETHYLBENZENE	1 - 5	form R reporting required	1000
100-41-4		for 1.0% de minimis	
		concentration	

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE BUTANE	74-98-6 106-97-8	
ISOBUTYL ACETATE	110-19-0	
DIMETHYL KETONE- EXEMPT SOLVENT		67-64-1
ETHYLBENZENE	100-41-4	
BARIUM METABORATE	13701-5	9-2
TITANIUM DIOXIDE	13463-67-7	
PROPRIETARY INERT	Trade Se	cret
MINERAL SPIRITS	64742-47-8	
XYLENE	1330-20-7	

#### **Additional Non-Hazardous Materials**

**PROPRIETARY RESIN** 

Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of productPhotochemically reactive.

# **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 30/Dec/2013 30/Dec/2013

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date:	<b>410.0065058.076</b> VAL65058 PREM GLOSS CLEAR 6UC Paint product. 05/Jun/2014 05/Jun/2014
<b>Company Identification</b> The Valspar Corporation 1000 Lake Road Medina, OH 44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

· Severe eye irritation

#### Skin Contact:

• May cause defatting of the skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Blood disorders
- Cardiac arrhythmias
- Kidney injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	Acetone
ISOBUTYL ACETATE 110-19-0	25 - 30	Isobutyl acetate
PROPANE 74-98-6	10 - 15	Propane
BUTANE 106-97-8	5 - 10	Butane
ETHYL 3- ETHOXYPROPIONATE 763-69-9	5 - 10	Ethyl 3-ethoxypropionate

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

#### **Unusual fire and explosion hazards:** None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Other Personel Protection Data:**

Usual industrial work clothes.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### **Exposure Guidelines**

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE-	30 - 35	1000 ppm TWA		
EXEMPT SOLVENT		2400 mg/m³ TWA		
67-64-1				
ISOBUTYL ACETATE	25 - 30	150 ppm TWA		
110-19-0		700 mg/m <sup>3</sup> TWA		
PROPANE	10 - 15	1000 ppm TWA		
74-98-6		1800 mg/m³ TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	500 ppm TWA	750 ppm STEL		
ISOBUTYL ACETATE 110-19-0	25 - 30	150 ppm TWA			
PROPANE 74-98-6	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			

# 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 5.0 -44°F (-42°C) not determined not determined

# 9. PHYSICAL PROPERTIES

Density (lbs per US gallon):	6.38
Specific Gravity:	.77
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.
Sensitivity to static discharge:	Subject to static discharge hazards. Please

and grounding information in Section 7.

see bonding

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	= 5800 mg/kg Oral LD50 Rat
ISOBUTYL ACETATE 110-19-0	25 - 30	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
PROPANE 74-98-6	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
ETHYL 3- ETHOXYPROPIONATE 763-69-9	5 - 10	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### **U.S. Department of Transportation**

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

# **14. TRANSPORTATION INFORMATION**

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35			5000
ISOBUTYL ACETATE 110-19-0	25 - 30			5000

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### **Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE	74-98-6	
BUTANE	106-97-8	
DIMETHYL KETONE- EXEMPT SOLVENT		67-64-1
ETHYL 3-ETHOXYPROPIONATE		763-69-9
ISOBUTYL ACETATE	110-1	19-0

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN

Trade Secret

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

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#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	05/Jun/2014
Revision Date:	05/Jun/2014

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# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date:	<b>465.0066009.076</b> VAL66009 BRILL GOLD SPR 6UC Paint product. 07/Jun/2014 07/Jun/2014
<b>Company Identification</b> The Valspar Corporation 1000 Lake Road Medina, OH 44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

· Severe eye irritation

#### Skin Contact:

- May cause defatting of the skin.
- Dermatitis
- Causes skin irritation.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders

#### This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Exposure may result in irritation and metal-fume fever, metallic taste, and discoloration of the skin and hair.
- Systemic toxicity

# **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE-	25 - 30	Acetone
EXEMPT SOLVENT 67-64-1		
PROPANE	20 - 25	Propane
74-98-6		
BUTANE	10 - 15	Butane
106-97-8		
ISOBUTYL ACETATE	5 - 10	Isobutyl acetate
110-19-0		
MINERAL SPIRITS	5 - 10	Petroleum distillates, hydrotreated light
64742-47-8		
DIMETHYL KETONE	5 - 10	Acetone
67-64-1		
COPPER	5 - 10	Copper
7440-50-8		
ZINC	1 - 5	Zinc
7440-66-6		

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area. Get medical attention immediately.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS Personal Protective Equipment

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### **Exposure Guidelines**

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE	20 - 25	1000 ppm TWA		
74-98-6		1800 mg/m <sup>3</sup> TWA		
ISOBUTYL ACETATE	5 - 10	150 ppm TWA		
110-19-0		700 mg/m <sup>3</sup> TWA		
DIMETHYL KETONE	5 - 10	1000 ppm TWA		
67-64-1		2400 mg/m <sup>3</sup> TWA		
COPPER	5 - 10	0.1 mg/m <sup>3</sup> TWA fume		
7440-50-8		1 mg/m <sup>3</sup> TWA dust and		
		mist		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	20 - 25	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	10 - 15	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
ISOBUTYL ACETATE 110-19-0	5 - 10	150 ppm TWA			
DIMETHYL KETONE 67-64-1	5 - 10	500 ppm TWA	750 ppm STEL		

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
COPPER	5 - 10	0.2 mg/m <sup>3</sup> TWA			
7440-50-8		fume			

# 9. PHYSICAL PROPERTIES

Odor: Normal for this product type. Physical State: Aerosol pH: not determined Vapor pressure: NOT DETERMINED mmHg @ 68°F (20°C) Vapor density (air = 1.0): 5.1 Boiling point: -44°F (-42°C) Solubility in water: not determined Coefficient of water/oil distribution: not determined Density (lbs per US gallon): 5.87 Specific Gravity: .7 Evaporation rate (butyl acetate = 1.0): 5.6 Flash point (Fahrenheit): -31 Flash point (Celsius): -35 Lower explosive limit (%): 1 Upper explosive limit (%): 13 Autoignition temperature: not determined

# **10. STABILITY AND REACTIVITY**

Stability: Conditions to Avoid: Incompatibility: Hazardous Polymerization: Hazardous Decomposition Products: Stable under normal conditions. Heat. Strong oxidizing agents None anticipated. Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	20 - 25	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	10 - 15	= 658 mg/L Inhalation LC50 Rat 4 h
ISOBUTYL ACETATE 110-19-0	5 - 10	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
MINERAL SPIRITS 64742-47-8	5 - 10	> 2000 mg/kg Dermal LD50 Rabbit > 5.2 mg/L Inhalation LC50 Rat 4 h > 5000 mg/kg Oral LD50 Rat
DIMETHYL KETONE 67-64-1	5 - 10	= 5800 mg/kg Oral LD50 Rat

# **12. ECOLOGICAL DATA**

No information on ecology is available.

# 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name:

CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

#### International Air Transport Association (IATA):

UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
rnational Maritime Organization (IMO):	

International Maritime Organization	(IMO):

UN1950 AEROSOLS, FLAMMABLE 2.1 No

# **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30			5000
ISOBUTYL ACETATE 110-19-0	5 - 10			5000
DIMETHYL KETONE 67-64-1	5 - 10			5000
COPPER 7440-50-8	5 - 10		form R reporting required for 1.0% de minimis concentration	5000
ZINC 7440-66-6	1 - 5		form R reporting required for 1.0% de minimis concentration (only fume or dust)	1000

# SARA 311/312 Hazard Class:

Acute:

yes

Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE BUTANE	74-98-6 106-97-8	
DIMETHYL KETONE- EXEMPT SOLV	ENT	67-64-1
MINERAL SPIRITS	64742-47-8	
ISOBUTYL ACETATE	110-19-0	
DIMETHYL KETONE	67-64-1	
ZINC	7440-66-6	
COPPER	7440-50-8	

#### Additional Non-Hazardous Materials

PROPRIETARY RESIN

**Trade Secret** 

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

# 16. OTHER INFORMATION

HMIS (	Codes
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Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	
Print date:	
Revision Date:	

Regulatory Affairs Department 07/Jun/2014 07/Jun/2014

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# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation 1000 Lake Road Medina, OH 44256	<b>410.0085010.076</b> VAL85010 PREM GLOSS GOLD ABUNDANCE 6UC Paint product. 05/Jun/2014 05/Jun/2014
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Harmful if absorbed through skin.
- Can be absorbed through skin.

# Ingestion:

• Irritation of the mouth, throat, and stomach.

- Harmful if swallowed.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	Acetone
PROPANE 74-98-6	15 - 20	Propane
BUTANE 106-97-8	5 - 10	Butane
BUTYL ACETATE 123-86-4	5 - 10	n-Butyl acetate
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	Ethylene glycol monopropyl ether
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	Ethyl 3-ethoxypropionate
XYLENE 1330-20-7	1 - 5	Xylenes (o-, m-, p- isomers)
ISOBUTYL ACETATE 110-19-0	1 - 5	Isobutyl acetate
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide
ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

# Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE-	35 - 40	1000 ppm TWA		
EXEMPT SOLVENT 67-64-1		2400 mg/m <sup>3</sup> TWA		
PROPANE	15 - 20	1000 ppm TWA		
74-98-6		1800 mg/m³ TWA		
BUTYL ACETATE	5 - 10	150 ppm TWA		
123-86-4		710 mg/m <sup>3</sup> TWA		
XYLENE	1 - 5	100 ppm TWA		
1330-20-7		435 mg/m <sup>3</sup> TWA		
ISOBUTYL ACETATE	1 - 5	150 ppm TWA		
110-19-0		700 mg/m <sup>3</sup> TWA		
TITANIUM DIOXIDE	1 - 5	15 mg/m <sup>3</sup> TWA dust		
13463-67-7		total		
ETHYLBENZENE	.1 - 1	100 ppm TWA		
100-41-4		435 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
XYLENE 1330-20-7	1 - 5	100 ppm TWA	150 ppm STEL		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup> TWA			
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm TWA	125 ppm STEL		

# 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Evaporation rate (butyl acetate = 1.0): Flash point (Fahrenheit): Flash point (Celsius): Lower explosive limit (%):	Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 5.0 -44°F (-42°C) not determined not determined 6.45 .77 5.6 -31 -35 1
Upper explosive limit (%):	16
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Stable under normal conditions.
Heat.
Strong oxidizing agents
None anticipated.
Carbon monoxide and carbon dioxide.
Subject to static discharge hazards. Plea

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 μL/kg Dermal LD50 Rabbit
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat
XYLENE 1330-20-7	1 - 5	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
TITANIUM DIOXIDE 13463-67-7	1 - 5	> 10000 mg/kg Oral LD50 Rat
ETHYLBENZENE 100-41-4	.1 - 1	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
ETHYLBENZENE 100-41-4	.1 - 1		Listed. initial date 6/11/04 - carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	1 - 5			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77 [2000]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	1 - 5	Present		
ETHYLBENZENE 100-41-4	.1 - 1	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

#### **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
International Maritime Organization (IMO):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
Marine Pollutant	No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40			5000
BUTYL ACETATE 123-86-4	5 - 10			5000
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5		YES	

XYLENE	1 - 5	form R reporting required 100
1330-20-7		for 1.0% de minimis
		concentration
ISOBUTYL ACETATE	1 - 5	5000
110-19-0		
ETHYLBENZENE	.1 - 1	form R reporting required 1000
100-41-4		for 1.0% de minimis
		concentration

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

### **U.S. STATE REGULATIONS:**

#### **Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE BUTANE XYLENE	74-98-6 106-97-8 1330-20-7	
ETHYL 3-ETHOXYPROPIONATE BUTYL ACETATE TITANIUM DIOXIDE ISOBUTYL ACETATE DIMETHYL KETONE- EXEMPT SOLVE ETHYLENE GLYCOL MONOPROPYL E	763-6 123-86-4 13463-67-7 110-19-0 NT	69-9 67-64-1 2807-30-9

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### **California Proposition 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

HM

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

IS Codes	
Health:	2*
Flammability:	4
Reactivity:	1

Product ID: 410.0085010.076

#### 16. OTHER INFORMATION PPE:

X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### Preparation Information:

Prepared By:	Regulatory Affairs Department
Print date:	05/Jun/2014
Revision Date:	05/Jun/2014

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# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation 1000 Lake Road Medina, OH 44256	<b>410.0085018.076</b> VAL85018 PREM GLOSS ISLAND ORANGE 6UC Paint product. 06/Jun/2014 06/Jun/2014
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Harmful if absorbed through skin.
- Can be absorbed through skin.

#### Ingestion:

• Irritation of the mouth, throat, and stomach.

- Harmful if swallowed.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	Acetone
PROPANE 74-98-6	15 - 20	Propane
BUTANE 106-97-8	5 - 10	Butane
BUTYL ACETATE 123-86-4	5 - 10	n-Butyl acetate
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	Ethylene glycol monopropyl ether
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	Ethyl 3-ethoxypropionate
XYLENE 1330-20-7	1 - 5	Xylenes (o-, m-, p- isomers)
ISOBUTYL ACETATE 110-19-0	1 - 5	Isobutyl acetate
TITANIUM DIOXIDE 13463-67-7	.1 - 1	Titanium dioxide
ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT	30 - 35	1000 ppm TWA 2400 mg/m³ TWA		
67-64-1				
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m³ TWA		
XYLENE 1330-20-7	1 - 5	100 ppm TWA 435 mg/m³ TWA		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA 700 mg/m³ TWA		
TITANIUM DIOXIDE	.1 - 1	15 mg/m <sup>3</sup> TWA dust		
13463-67-7		total		
ETHYLBENZENE	.1 - 1	100 ppm TWA		
100-41-4		435 mg/m³ TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
XYLENE 1330-20-7	1 - 5	100 ppm TWA	150 ppm STEL		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
TITANIUM DIOXIDE 13463-67-7	.1 - 1	10 mg/m <sup>3</sup> TWA			
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm TWA	125 ppm STEL		

# 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	5.0
Boiling point:	-44°F (-42°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	6.47
Specific Gravity:	.78
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Conditions to Avoid:	Heat.		
Incompatibility:	Strong oxidizing agents		
Hazardous Polymerization:	None anticipated.		
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.		
Sensitivity to static discharge:	Subject to static discharge hazards. Plea		

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 μL/kg Dermal LD50 Rabbit
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat
XYLENE 1330-20-7	1 - 5	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
TITANIUM DIOXIDE 13463-67-7	.1 - 1	> 10000 mg/kg Oral LD50 Rat
ETHYLBENZENE 100-41-4	.1 - 1	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name	Approx.	California Prop 65 - Reproductive	California Prop 65 - Carcinogen
CAS-No.	Weight %	(Female)	
ETHYLBENZENE 100-41-4	.1 - 1		Listed. initial date 6/11/04 - carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	.1 - 1			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77 [2000]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	.1 - 1	Present		
ETHYLBENZENE 100-41-4	.1 - 1	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

#### **14. TRANSPORTATION INFORMATION**

#### **U.S.** Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
International Maritime Organization (IMO):	
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
Marine Pollutant	No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	30 - 35			5000
BUTYL ACETATE 123-86-4	5 - 10			5000
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5		YES	

XYLENE	1 - 5	form R reporting required	100
1330-20-7		for 1.0% de minimis	
		concentration	
ISOBUTYL ACETATE	1 - 5		5000
110-19-0			
ETHYLBENZENE	.1 - 1	form R reporting required	1000
100-41-4		for 1.0% de minimis	
		concentration	

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

## **U.S. STATE REGULATIONS:**

#### **Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE	74-98-6	
BUTANE	106-97-8	
BUTYL ACETATE	123-86-4	
XYLENE	1330-20-7	
ISOBUTYL ACETATE	110-19-0	
ETHYLENE GLYCOL MONOPROPYL ETH	IER	2807-30-9
DIMETHYL KETONE- EXEMPT SOLVENT		67-64-1
ETHYL 3-ETHOXYPROPIONATE	763	-69-9

#### **Additional Non-Hazardous Materials**

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

# **16. OTHER INFORMATION**

HMIS Codes	
Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	06/Jun/2014
Revision Date:	06/Jun/2014

# valspar if it matters, we're on it.®

# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date: Company Identification The Valspar Corporation 1000 Lake Road Medina, OH 44256	<b>410.0085022.076</b> VAL85022 PREM GLOSS FROSTY BERRY 6UC Paint product. 19/Feb/2014 19/Feb/2014
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Harmful if absorbed through skin.

# Ingestion:

• Irritation of the mouth, throat, and stomach.

Product ID: 410.0085022.076

- Harmful if swallowed.
- Aspiration hazard if swallowed can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia

#### Acute Other Health Effects:

- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- · Causes headache, drowsiness or other effects to the central nervous system.
- Cardiac arrhythmias
- Kidney injury may occur.
- Blood disorders
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.
- Liver injury may occur.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingradiant Nama	Approx	Chamical Nama
Ingredient Name	Approx.	Chemical Name
CAS-No.	Weight %	
DIMETHYL KETONE-	35 - 40	Acetone
EXEMPT SOLVENT		
67-64-1		
PROPANE	15 - 20	Propane
74-98-6		
BUTANE	5 - 10	Butane
106-97-8		
BUTYL ACETATE	5 - 10	n-Butyl acetate
123-86-4		
TITANIUM DIOXIDE	1 - 5	Titanium dioxide
13463-67-7		
ETHYLENE GLYCOL	1 - 5	Ethylene glycol monopropyl ether
MONOPROPYL ETHER		
2807-30-9		
ISOBUTYL ACETATE	1 - 5	Isobutyl acetate
110-19-0		
METHYL ISOBUTYL	.1 - 1	Methylisobutyl ketone
KETONE		
108-10-1		

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

#### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding
	and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

# Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m³ TWA		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> TWA dust total		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA 700 mg/m³ TWA		
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1	100 ppm TWA 410 mg/m³ TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup> TWA			
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1	20 ppm TWA	75 ppm STEL		

# 9. PHYSICAL PROPERTIES

Odor:	Norma
Physical State:	Aeroso
pH:	not det
Vapor pressure:	NOT D
Vapor density (air = 1.0):	4
Boiling point:	-44°F (
Solubility in water:	not det
Coefficient of water/oil distribution:	not det
Density (lbs per US gallon):	6.53
Specific Gravity:	.78
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not det

Normal for this product type. Aerosol not determined NOT DETERMINED mmHg @ 68°F (20°C) 4 -44°F (-42°C) not determined not determined 5.53 78 5.6 -31 -35 1 16 not determined

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40	= 5800 mg/kg Oral LD50 Rat
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
TITANIUM DIOXIDE 13463-67-7	1 - 5	> 10000 mg/kg Oral LD50 Rat
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 μL/kg Dermal LD50 Rabbit
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1	= 2080 mg/kg Oral LD50 Rat = 8.2 mg/L Inhalation LC50 Rat 4 h > 16000 mg/kg Dermal LD50 Rabbit

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
METHYL ISOBUTYL	.1 - 1		carcinogen, initial date 11/04/11
KETONE			
108-10-1			

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	1 - 5			Monograph 47 [1989]
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1			Monograph 101 [in preparation]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	1 - 5	Present		
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1			A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

# 12. ECOLOGICAL DATA

No information on ecology is available.

# 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### U.S. Department of Transportation

UN ID Number (msds): Proper Shipping Name: CONCOM CONSUMER COMMODITY ORM-D [Paint]

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): UN/ID No: Proper shipping name: Hazard Class:	UN1950 AEROSOLS, FLAMMABLE 2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

# **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	35 - 40			5000
BUTYL ACETATE 123-86-4	5 - 10			5000
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5		YES	
ISOBUTYL ACETATE 110-19-0	1 - 5			5000
METHYL ISOBUTYL KETONE 108-10-1	.1 - 1		form R reporting required for 1.0% de minimis concentration	5000

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

TITANIUM DIOXIDE	13463-67-7	
ETHYLENE GLYCOL MONOPROPYL ETH	ER	2807-30-9
DIMETHYL KETONE- EXEMPT SOLVENT		67-64-1
PROPANE	74-98-6	
BUTANE	106-97-8	
BUTYL ACETATE	123-86-4	
ISOBUTYL ACETATE	110-19-0	

#### Additional Non-Hazardous Materials

PROPRIETARY RESIN

Trade Secret

#### **California Proposition 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS	Codes

Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By:	Regulat
Print date:	19/Feb/2
Revision Date:	19/Feb/2

Regulatory Affairs Department 19/Feb/2014 19/Feb/2014

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# **Material Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date:	<b>410.0085050.076</b> VAL85050 PREM FLAT BLACK 6UC Paint product. 02/Feb/2014 02/Feb/2014
<b>Company Identification</b> The Valspar Corporation 1000 Lake Road Medina, OH 44256	
Manufacturer's Phone:	1-330-725-4511
24-Hour Medical Emergency Phone:	1-888-345-5732

# 2. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Inhalation Ingestion Skin absorption

#### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- May cause defatting of the skin.
- Causes skin irritation.
- Harmful if absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

Product ID: 410.0085050.076

• Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- Asphyxia
- Acute Other Health Effects:
- May cause frostbite
- Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Blood disorders
- Cardiac arrhythmias
- Kidney injury may occur.
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

# 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name	Approx.	Chemical Name
CAS-No.	Weight %	
DIMETHYL KETONE-	40 - 45	Acetone
EXEMPT SOLVENT		
67-64-1		
PROPANE	15 - 20	Propane
74-98-6		
BUTANE	5 - 10	Butane
106-97-8		
BUTYL ACETATE	5 - 10	n-Butyl acetate
123-86-4		
ETHYLENE GLYCOL	1 - 5	Ethylene glycol monopropyl ether
MONOPROPYL ETHER		
2807-30-9		
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
ISOBUTYL ACETATE	1 - 5	Isobutyl acetate
110-19-0		
C.I. PIGMENT BLACK 7	.1 - 1	Carbon black
1333-86-4		

If this section is blank there are no hazardous components per OSHA guidelines.

# 4. FIRST AID MEASURES

# 4. FIRST AID MEASURES

#### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

#### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

#### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

#### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Do not give direct mouth-to-mouth resuscitation if inhaled. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

# 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

# 7. HANDLING AND STORAGE

# 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

# 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personel Protection Data:

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Exposure Guidelines

#### **OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	1000 ppm TWA 2400 mg/m³ TWA		
PROPANE 74-98-6	15 - 20	1000 ppm TWA 1800 mg/m³ TWA		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m³ TWA		
PROPRIETARY INERT	1 - 5	20 mppcf or 80 mg/m <sup>3</sup> / %SiO2		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA 700 mg/m³ TWA		
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	500 ppm TWA	750 ppm STEL		
PROPANE 74-98-6	15 - 20	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTANE 106-97-8	5 - 10	1000 ppm TWA Aliphatic hydrocarbon gases: Alkane C1-C4			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm TWA			
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	3.5 mg/m <sup>3</sup> TWA			

# 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4
Boiling point:	-44°F (-42°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	6.34
Specific Gravity:	.76
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31
Flash point (Celsius):	-35
Lower explosive limit (%):	1
Lower explosive limit (%):	1
Upper explosive limit (%):	16
Autoignition temperature:	not determined

# **10. STABILITY AND REACTIVITY**

Sensitivity to static discharge:	Subject to static discharge hazards. Please see		
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.		
Hazardous Polymerization:	None anticipated.		
Incompatibility:	Strong oxidizing agents		
Conditions to Avoid:	Heat.		
Stability:	Stable under normal conditions.		

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

# **11. TOXICOLOGICAL INFORMATION**

Ingredient Name Approx. CAS-No. Weight %	NIOSH - Selected LD50s and LC50s
---	----------------------------------

# **11. TOXICOLOGICAL INFORMATION**

DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	40 - 45	= 5800 mg/kg Oral LD50 Rat		
PROPANE 74-98-6	15 - 20	= 658 mg/L Inhalation LC50 Rat 4 h		
BUTANE 106-97-8	5 - 10	= 658 mg/L Inhalation LC50 Rat 4 h		
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit		
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 μL/kg Dermal LD50 Rabbit		
ISOBUTYL ACETATE 110-19-0	1 - 5	= 13400 mg/kg Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit		
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	> 15400 mg/kg Oral LD50 Rat > 3 g/kg Dermal LD50 Rabbit		

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

IARC has classified carbon black as possibly carcinogenic to humans (Group 2B).

Ingredient Name	Approx.	IARC Group 1 - Human	IARC Group 2A - Limited	IARC Group 2B -
CAS-No.	Weight %	Evidence	Human Data	Sufficient Animal Data
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1			Monograph 65 [1996]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
C.I. PIGMENT BLACK 7 1333-86-4	.1 - 1	Present		

# 12. ECOLOGICAL DATA

No information on ecology is available.

# **13. DISPOSAL CONSIDERATIONS**

Disposal should be made in accordance with federal, state and local regulations.

# **14. TRANSPORTATION INFORMATION**

#### **U.S. Department of Transportation**

UN ID Number (msds): CONCOM Proper Shipping Name: CONSUMER COMMODITY ORM-D [Paint]

## U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA	<b>A):</b>
UN/ID No:	UN1950
Proper shipping name:	AEROSOLS, FLAMMABLE
Hazard Class:	2.1
International Maritime Organization (IMO): UN/ID No: Proper shipping name: Hazard Class: Marine Pollutant	UN1950 AEROSOLS, FLAMMABLE 2.1 No

# **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

Ingredient Name	Approx.	SARA 302	SARA 313	CERCLA RQ in lbs.
CAS-No.	Weight %			
DIMETHYL KETONE-	40 - 45			5000
EXEMPT SOLVENT				
67-64-1				
BUTYL ACETATE	5 - 10			5000
123-86-4				
ETHYLENE GLYCOL	1 - 5		YES	
MONOPROPYL ETHER				
2807-30-9				
ISOBUTYL ACETATE	1 - 5			5000
110-19-0				

#### SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	yes

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPANE BUTANE	74-98-6 106-97-8	
ISOBUTYL ACETATE	110-19-0	
ETHYLENE GLYCOL MONOPROPYL ETH	HER 280	7-30-9
DIMETHYL KETONE- EXEMPT SOLVENT	67-64-	1
BUTYL ACETATE	123-86-4	
PROPRIETARY INERT	Trade Secret	

#### **Additional Non-Hazardous Materials**

**PROPRIETARY RESIN** 

Trade Secret

Rule 66 status of product

Not photochemically reactive.

# **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

### 16. OTHER INFORMATION

#### **HMIS Codes**

Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

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#### **Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	02/Feb/2014
Revision Date:	02/Feb/2014

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# SAFETY DATA SHEET

Revision date 14-May-2015

Version 3

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code

410.0085058.076

**Product Name** 

110.0000000.070

VAL85058 PREM GLOSS CLEAR 6UC

Other means of identification No information available

Recommended use of the chemical and restrictions on use Aerosol, Paint

Details of the supplier of the safety data sheet

See section 16 for more information

The Valspar Corporation PO Box 1461 Minneapolis, MN 55440

E-mail address

msds@valspar.com

Emergency telephone number United States of America 1-888-345-5732 American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands 1-800-255-3924

# Section 2: HAZARDS IDENTIFICATION

#### **Classification**

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable aerosols	Category 2
Gases under pressure	Liquefied gas

#### Label elements

Product Code 410.0085058.076 Page 1 / 8 AGHS - USA OSHA SDS



Signal word

WARNING

#### HAZARD STATEMENTS

Flammable aerosol Contains gas under pressure; may explode if heated Causes serious eye irritation May cause drowsiness or dizziness

#### PREVENTION

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

#### RESPONSE

Get medical advice/attention if you feel unwell.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 122 °F (50 °C).

#### DISPOSAL

Dispose of contents/containers in accordance with local regulations.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Propellant is classified as a simple asphyxiant if released in large quantities: May displace oxygen and cause rapid suffocation.

#### **OTHER HAZARDS**

Not applicable.

UNKNOWN ACUTE TOXICITY

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
Acetone	67-64-1	25 - 50

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### Section 4: FIRST AID MEASURES

#### First Aid Measures

#### **General advice**

Product Code 410.0085058.076 Page 2 / 8 AGHS - USA OSHA SDS Get medical advice/attention if you feel unwell.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

#### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO2, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

#### Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

#### For emergency responders

Use personal protection recommended in Section 8.

#### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

#### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

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#### Section 7: HANDLING AND STORAGE

#### Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

#### **General Hygiene Considerations**

Avoid contact with skin, eyes or clothing. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect from sunlight. Store in a well-ventilated place.

#### Incompatible materials

Strong bases. Strong oxidizing agents. Strong acids.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup>	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 ma/m <sup>3</sup>

#### Appropriate engineering controls

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin and body protection

Wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber.

#### **Hand Protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Thermal Protection**

No information available

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# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Aerosol
Appearance	No information available
Odor	Solvent
Color	clear
Odor Threshold	No information available
pH value	No information available
Melting point/freezing point	No information available
Boiling point / boiling range	No information available °C / °F
flash point	-35 °C / -31 °F
evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor Pressure	No information available
vapor density	No information available
Density (Ibs per US gallon)	6.38
specific gravity	.76
Solubility(ies)	Not Determined
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available

#### **Other information**

#### Section 10: STABILITY AND REACTIVITY

No information available.
Stable under normal conditions.
None under normal processing.
None under normal processing.
Heat, flames and sparks.
Strong bases. Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2).

## Section 11: TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact Causes serious eye irritation Skin Contact Not applicable Ingestion Not applicable Inhalation May cause drowsiness or dizziness

Numerical measures of toxicity - Component Information

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	-	-	= 50100 mg/m <sup>3</sup> (Rat) 8 h
67-64-1			,

#### Numerical measures of toxicity - Product Information

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not applicable
Serious eye damage/eye irritation	Causes serious eye irritation
Skin sensitization	Not applicable
Respiratory sensitization	Not applicable
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Specific target organ toxicity (single	e May cause drowsiness or dizziness
exposure)	
Specific target organ toxicity	Not applicable
(repeated exposure)	
Aspiration hazard	Not applicable

#### Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Environmental precautions

Prevent product from entering drains.

#### Persistence and degradability No information available

# **Bioaccumulation**

No information available

#### **Mobility**

No information available

Other adverse effects

No information available

#### Section 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

#### Section 14: TRANSPORT INFORMATION

14.1 UN/ID no 14.2 Proper shipping name	DOT ORM-D CONSUMER COMMODITY	IMDG UN1950 Aerosols	IATA UN1950 Aerosols
14.3 Hazard Class 14.4 Packing Group		2.1	2.1

14.5 Environmental hazard Not applicable

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#### **14.6 Special Provisions**

Emergency Response Guide EmS-No Number F-D. S-U

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### Section 15: REGULATORY INFORMATION

#### International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

#### US Federal Regulations

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone	5000 lb		RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ

#### US State Regulations

#### Rule 66 status of product

Not photochemically reactive.

#### U.S. EPA Label information

EPA Pesticide registration number Not applicable

#### U.S. State Right-to-Know Regulations

Chemical Name		
Acetone		
67-64-1		
Isobutyl acetate		
110-19-0		
Propane		
74-98-6		
Proprietary Non-Hazardous Ingredient - Proprietary CAS		
Butane		
106-97-8		
Proprietary Non-Hazardous Ingredient - Proprietary CAS		

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system

#### **Section 16: OTHER INFORMATION**

HMIS		
Health hazards		
Flammability		

2 4

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No information available

All components are listed or exempt from listing All components are listed or exempt from listing

#### Physical hazards Personal Protection

Supplier Address		
Valspar Consumer	The Valspar Corporation	Valspar Plasti-Kote
Headquarters	4999 36th St.	7655 Tranmere Dr.
8725 W. Higgins Rd. Suite	Grand Rapids, MI 49512	Mississauga, Ontario L5S 1L4
1000	800-253-3957	905-671-8333
Chicago, IL 60631		
773-628-5500		

0 X

#### **Prepared By**

Product Stewardship

Revision date Revision Note <u>Disclaimer</u> 14-May-2015 No information available

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet

# valspar if it matters, we're on it.®

# SAFETY DATA SHEET

Revision date 22-Jan-2016

Version 3

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier Product Code

410.0085205.076

**Product Name** 

110.0000200.070

VAL85205 CLSIC RYL BLUE GLS 6UC

Other means of identification No information available

Recommended use of the chemical and restrictions on use Aerosol, Paint

Details of the supplier of the safety data sheet See section 16 for more information

The Valspar Corporation PO Box 1461 Minneapolis, MN 55440

E-mail address

msds@valspar.com

Emergency telephone number United States of America 1-888-345-5732 American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands 1-800-255-3924

# Section 2: HAZARDS IDENTIFICATION

#### **Classification**

Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable aerosols	Category 2
Gases under pressure	Liquefied gas

#### Label elements

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Signal word

WARNING

#### HAZARD STATEMENTS

Flammable aerosol Contains gas under pressure; may explode if heated Causes serious eye irritation May cause an allergic skin reaction Suspected of damaging fertility or the unborn child May cause drowsiness or dizziness

#### PREVENTION

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

#### RESPONSE

IF exposed or concerned: Get medical advice/attention.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 122 °F (50 °C).

#### DISPOSAL

Dispose of contents/containers in accordance with local regulations.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Propellant is classified as a simple asphyxiant if released in large quantities: May displace oxygen and cause rapid suffocation.

#### **OTHER HAZARDS**

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
Acetone	67-64-1	25 - 50
n-Butyl acetate	123-86-4	5 - 10
Ethylene glycol monopropyl ether	2807-30-9	3 - 5
Titanium dioxide	13463-67-7	1 - 3
Isobutyl acetate	110-19-0	1 - 3
Hexanoic acid, 2-ethyl-, zinc salt (2:1)	136-53-8	0.1 - 0.3

Zirconium ethyl hexoate	22464-99-9	0.1 - 0.3
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\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### Section 4: FIRST AID MEASURES

#### First Aid Measures

#### General advice

IF exposed or concerned: Get medical advice/attention.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Skin Contact

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

#### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO2, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

#### Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

#### For emergency responders

Use personal protection recommended in Section 8.

#### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

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#### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

#### Section 7: HANDLING AND STORAGE

#### Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

#### Incompatible materials

Strong oxidizing agents.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup>	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>
n-Butyl acetate 123-86-4	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m³	IDLH: 1700 ppm TWA: 150 ppm TWA: 710 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Isobutyl acetate 110-19-0	TWA: 150 ppm	TWA: 150 ppm TWA: 700 mg/m³	IDLH: 1300 ppm TWA: 150 ppm TWA: 700 mg/m <sup>3</sup>
Zirconium ethyl hexoate 22464-99-9	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m³ Zr	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr

#### Appropriate engineering controls

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#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles.

#### Skin and body protection

Wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing.

#### **Hand Protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

#### **Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### **Thermal Protection**

No information available

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor Color Odor Threshold pH value Melting point/freezing point Boiling point / boiling range flash point evaporation rate Flammability (solid, gas)	Aerosol No information available Solvent blue No information available No information available No information available No information available °C / °F -35 °C / -31 °F No information available No information available
Flammability Limit in Air	
Upper flammability limit: Lower flammability limit:	No information available No information available
Vapor Pressure	No information available
vapor density	No information available
Density (Ibs per US gallon) specific gravity	6.4 .77
Solubility(ies)	Not Determined
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature Kinematic viscosity	No information available No information available
Dynamic viscosity	No information available

#### **Other information**

#### Section 10: STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2).

#### Section 11: TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact Causes serious eye irritation Skin Contact May cause an allergic skin reaction Ingestion Not applicable Inhalation May cause drowsiness or dizziness

#### Numerical measures of toxicity - Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	-	-	= 50100 mg/m³ (Rat)8 h
n-Butyl acetate 123-86-4	= 14.13 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	= 390 ppm (Rat)4 h
Ethylene glycol monopropyl ether 2807-30-9	-	= 870 mg/kg (Rabbit)	= 1530 ppm (Rat) 7 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Isobutyl acetate 110-19-0	= 15400 mg/kg (Rat)	> 17400 mg/kg (Rabbit)	-
Hexanoic acid, 2-ethyl-, zinc salt (2:1) 136-53-8	-	-	-
Zirconium ethyl hexoate 22464-99-9	-	-	-

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal) 29349 Mg/kg

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Carcinogenicity

According to IARC, Volume 93, no significant exposure to primary particles of titanium dioxide is thought to occur from use in paints since the pigment is bound to other materials.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		Х
13463-67-7				

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans.

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present.

X - Present.

#### Skin corrosion/irritation

Not applicable

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Serious eye damage/eye irritat Skin sensitization Respiratory sensitization Germ cell mutagenicity Carcinogenicity Reproductive Toxicity Specific target organ toxicity (sexposure)	May cause an allergic s Not applicable Not applicable Not applicable Suspected of damaging	kin reaction fertility or the unborn chil	d
Specific target organ toxicity (repeated exposure)	Not applicable		
Aspiration hazard	Not applicable		
	Section 12: ECOLO	OGICAL INFORMATI	ON
Ecotoxicity Harmful to aquatic life with long la	asting effects.		
Environmental precautions	Prevent product from er	ntering drains.	
Persistence and degradability No information available			
Bioaccumulation No information available			
Mobility No information available			
Other adverse effects	No information available	9	
	Section 13: DISPOS	SAL CONSIDERATIO	DNS
Waste treatment methods			
Disposal of wastes	Disposal should be in a regulations.	ccordance with applicable	regional, national and local laws and
Contaminated packaging	ontaminated packaging Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.		
	Section 14: TRANS	SPORT INFORMATIO	ON
14.1 UN/ID no	DOT ORM-D CONSUMER COMMODITY	IMDG UN1950 Aerosols, flammable	<b>IATA</b> UN1950 Aerosols, flammable
14.3 Hazard Class 14.4 Packing Group 14.5 Environmental hazard Not ap	plicable	2.1	2.1
	· Emergency Response Guide Number	<b>EmS-No</b> F-D, S-U	
14.7 Transport in bulk according t	126 o Annex II of MARPOL 73/78 an	d the IBC Code	No information available
	Section 15: REGUL	ATORY INFORMAT	ION
International Inventories TSCA - United States Toxic Subs	stances Control Act Section 8(	b) Inventory	All components are listed or exempt

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

All components are listed or exempt from listing. All components are listed or exempt from listing

#### US Federal Regulations

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Chemical Name	SARA 313 - Threshold Values %	Hazardous air pollutants (HAPs) content
Ethylene glycol monopropyl ether 2807-30-9 3 - 5	1	Present

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
n-Butyl acetate 123-86-4	5000 lb			Х
Isobutyl acetate 110-19-0				Х
Hexanoic acid, 2-ethyl-, zinc salt (2:1) 136-53-8		X		

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
n-Butyl acetate 123-86-4	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Isobutyl acetate 110-19-0	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

#### US State Regulations

<u>Rule 66 status of product</u> Not photochemically reactive.

#### **California Proposition 65**

WARNING! This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### U.S. EPA Label information

**EPA Pesticide registration number** Not applicable

#### U.S. State Right-to-Know Regulations

Chemical Name	
Acetone	
67-64-1	
Propane	
74-98-6	
Proprietary Non-Hazardous Ingredient - Proprietary CAS	
Butane	
106-97-8	
n-Butyl acetate	
123-86-4	
Ethylene glycol monopropyl ether	
2807-30-9	
Titanium dioxide	
13463-67-7	
Isobutyl acetate	
110-19-0 Product Code 410.00	85205.076
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AGHS - USA OSHA	SDS

### Zirconium ethyl hexoate 22464-99-9

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system

#### Section 16: OTHER INFORMATION

HMIS		
Health hazards	2*	
* = Chronic Health Haza	ard	
Flammability	4	
Physical hazards	0	
Personal Protection	Х	
Supplier Address		
Valspar Consumer Headquarters	The Valspar Corporation 4999 36th St.	Valspar Plasti-Kote 1636 Shawsone Dr.
8725 W. Higgins Rd. Suite	Grand Rapids, MI 49512	3
1000 Chianna II. 60621	800-253-3957	905-671-8333
Chicago, IL 60631 773-628-5500		
113-028-3300		
Prepared By	Product	Stewardship
Revision date	22-Jan-2	
Revision Note	No inforr	nation available
Disclaimer		

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet

Product Code 410.0085205.076 Page 9 / 9 AGHS - USA OSHA SDS

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product ID: Product Name: Product Use: Print date: Revision Date:	<b>044.0000655.008</b> PQ LX FIELD MARK WHT Paint product. 17/Apr/2014 24/Mar/2014
<b>Company Identification</b> The Valspar Corporation - Arc 1191 Wheeling Road Wheeling, IL 60090	chitectural Coatings Division

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency Phone:	1-888-345-5732

#### 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

#### Eye Contact:

• May cause eye irritation.

#### Skin Contact:

• Causes mild skin irritation.

#### Ingestion:

None known.

#### Inhalation:

• May cause irritation of respiratory tract.

#### This product contains ingredients that may contribute to the following potential chronic health effects:

• Prolonged exposure over TLV may produce pneumoconiosis.

#### Carcinogens:

• Possible cancer hazard. Contains material which may cause cancer based on animal data.

#### **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

#### **3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

0	Approx. Weight %	Chemical Name
CLAY 66402-68-4	20 - 25	Ceramic materials and wares, chemicals
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide

If this section is blank there are no hazardous components per OSHA guidelines.

#### 4. FIRST AID MEASURES

#### Eye Contact:

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water.

#### Skin Contact:

Wash off with plenty of water.

#### Ingestion:

Get medical attention if symptoms occur

#### Inhalation:

Move to fresh air. Get medical attention, if symptoms develop or persist.

#### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

#### 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	no
Sensitivity to impact:	Songitivity to static discharge is not expected
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

#### Unusual fire and explosion hazards:

None known.

#### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

#### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

#### 7. HANDLING AND STORAGE

#### 7. HANDLING AND STORAGE

#### Precautions to be taken in handling and storage:

Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

#### 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

#### **Personal Protective Equipment**

#### Eye and face protection:

Wear safety glasses or goggles to protect against exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### **Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

#### **Exposure Guidelines**

#### **OSHA Permissible Exposure Limits (PEL's)**

0	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
CLAY 66402-68-4	20 - 25	5 mg/m³ TWA Zr		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m³ TWA dust total		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
CLAY	20 - 25	0.2 mg/m <sup>3</sup> TWA Mn	10 mg/m <sup>3</sup> STEL Zr		
66402-68-4		5 mg/m³ TWA Zr			
TITANIUM DIOXIDE	1 - 5	10 mg/m <sup>3</sup> TWA			
13463-67-7					

#### 9. PHYSICAL PROPERTIES

Odor: Physical State: pH: Vapor pressure: Vapor density (air = 1.0): Boiling point: Solubility in water: Coefficient of water/oil distribution: Density (lbs per US gallon): Specific Gravity: Normal for this product type. liquid not determined 24 mmHg @ 77°F (25°C) 0.6 212°F (100°C) not determined not determined 9.96 1.19

#### 9. PHYSICAL PROPERTIES

Evaporation rate (butyl acetate = 1.0):	0.1
Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined

#### **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.	
Conditions to Avoid:	None known.	
Incompatibility:	Avoid water-reactive materials, heat or contact with peroxides or other catalysts.	
Hazardous Polymerization:	None anticipated.	
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.	
•	•	

#### Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

#### 11. TOXICOLOGICAL INFORMATION

3	Approx. Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE 13463-67-7	1 - 5	> 10000 mg/kg Oral LD50 Rat

#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
CLAY 66402-68-4	20 - 25			Monograph 43 [1988]
TITANIUM DIOXIDE 13463-67-7	1 - 5			Monograph 47 [1989]

0	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
CLAY 66402-68-4	20 - 25	Present		
TITANIUM DIOXIDE 13463-67-7	1 - 5	Present		

#### 12. ECOLOGICAL DATA

No information on ecology is available.

#### 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

#### 14. TRANSPORTATION INFORMATION

#### **U.S. Department of Transportation**

UN ID Number (msds): Proper Shipping Name: NRPAIN PAINT, NOT REGULATED

#### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

#### **Reportable Quantity Description:**

International Air Transport Association (IATA): Proper shipping name:	NOT REGULATED
International Maritime Organization (IMO): Proper shipping name: Marine Pollutant	NOT REGULATED No

#### **15. REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

SARA 311/312 Hazard Class:	
Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

#### **U.S. STATE REGULATIONS:**

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

TITANIUM DIOXIDE	13463-67-7
CLAY	66402-68-4

#### **Additional Non-Hazardous Materials**

WATER	
PROPRIETARY	RESIN

7732-18-5 Trade Secret

Rule 66 status of product

Not photochemically reactive.

#### **INTERNATIONAL REGULATIONS - Chemical Inventories**

#### **US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

#### **16. OTHER INFORMATION**

HMIS Codes	
Health:	1*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

#### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH -National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA -Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ -Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

#### **Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

#### **Preparation Information:**

Prepared By: Print date: Revision Date: Regulatory Affairs Department 17/Apr/2014 24/Mar/2014

# SAFETY DATA SHEET

VALU+PLUS PINK POT AND PAN DETERGENT

### Section 1. Chemical product and company identification

Product name Recommended use and restrictions	LU+PLUS PINK POT AND PAN DETERGENT inual Warewashing Detergent e only for the purpose on the product label.	
Product dilution information	to 1 oz/3 gal in water	
Supplier's information	Foods, Inc. 99 West Higgins Road Suite 500 semont, IL 60018 947-720-8000 w.usfoods.com	
Code	6559	
Date of issue	<b>Oct 2013</b> IERGENCY HEALTH INFORMATION: 1-800-328-0026 tside United States and Canada CALL 1-651-222-5352 (in USA)	

### Section 2. Hazards identification

	Product AS SOLD	Product AT USE DILUTION
GHS Classification	: Not classified.	Not classified.
GHS label elements		
Signal word	: No signal word.	No signal word.
Hazard statements	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Precautionary statem	<u>ients</u>	
Prevention	: Wash thoroughly after handling.	Wash thoroughly after handling.
Response	: Get medical attention if symptoms appear.	Get medical attention if symptoms appear.
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture		
Product AS SOLD		
Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM C14-16 OLEFIN SULFONATE	1 - 5	68439-57-6
Product AT USE DILUTION		

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: No known effect after eye contact. Rinse with water for a few minutes.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first- aiders	: No action shall be taken involving any personal risk or without suitable training.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

Product AS SOLD	
Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: No specific data.
Specific fire-fighting methods	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children.	Keep out of reach of children.
	Store between the following temperatures: 0 and 50°C	

### Section 8. Exposure controls/personal protection

#### **Control parameters** Ingredient name Exposure limits None. **Product AS SOLD Product AT USE DILUTION** Appropriate : Good general ventilation should be sufficient to Good general ventilation should be sufficient control worker exposure to airborne to control worker exposure to airborne engineering controls contaminants. contaminants. Personal protection Eye protection : No protective equipment is needed under normal No protective equipment is needed under normal use conditions. use conditions. No protective equipment is needed under Hand protection : No protective equipment is needed under normal normal use conditions. use conditions. Skin protection : No protective equipment is needed under normal No protective equipment is needed under normal use conditions. use conditions. Respiratory : A respirator is not needed under normal and A respirator is not needed under normal and intended conditions of product use. intended conditions of product use. protection : Wash hands before eating, drinking or smoking. Hygiene measures

### Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Color	: pink	pink [Light]
Odor	: Fragrance-like	Fragrance-like
рН	: 7 to 9 (100%)	7.6
Flash point	: > 100°C Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	

guo	
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Evaporation rate	: Not available.
(butyl acetate = 1)	
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1 to 1.02 (Water = 1)
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Not available.

## Section 10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid Materials to avoid	: No specific data. : Not available.
Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

## Section 11. Toxicological information

Route of exposure	: Skin contact, Eye cor	ntact, Inhalation, I	ngestion	
•	Product AS SOLD			Product AT USE DILUTION
Symptoms				
Eye contact	: No specific data.			No specific data.
Skin contact	: No specific data.			No specific data.
Inhalation	: No specific data.			No specific data.
Ingestion	: No specific data.			No specific data.
Acute toxicity				
Eye contact	: No known significant effects or critical hazards.		No known significant effects or critical hazards.	
Skin contact	: No known significant	: No known significant effects or critical hazards.		No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.		No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.		No known significant effects or critical hazards.	
Toxicity data				
Product/ingredien	t name			
sulfonic acids, c14- c14-16-alkene, sod	16-alkane hydroxy and ium salts	LD50 Dermal	Rabbit	6300 mg/kg
		LD50 Oral	Rat	3983 mg/kg
Chronic toxicity				
Carcinogenicity	: No known si	gnificant effects o	or critical h	azards.
Mutagenicity	: No known si	gnificant effects c	or critical ha	azards.

widtagementy	
Teratogenicity	: No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

```
Fertility effects : No known significant effects or critical hazards.
```

## Section 12. Ecological information

#### Product AS SOLD

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic and terrestrial toxicity			
Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
Other adverse effects : No known s	significant effects or critical haza	ards.	

### Section 13. Disposal considerations

#### Product AS SOLD

Disposal methods

: Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

#### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

### Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

#### <u>DOT</u>

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification

Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

#### Product AT USE DILUTION

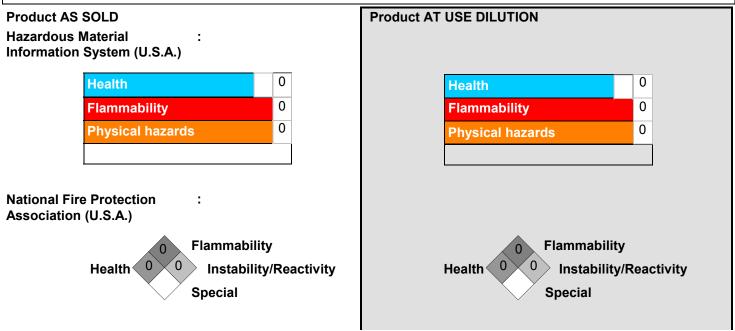
Not intended for transport.

### Section 15. Regulatory information

#### Product AS SOLD

U.S. Federal regulations			
TSCA 8(b) inventory	: All components are listed or exempted	ed.	
SARA 302/304/311/312 ex	tremely hazardous substances: No listed	substance	
SARA 302/304 emergenc	y planning and notification: No listed subs	tance	
<u>SARA 313</u>	Product name	<u>CAS number</u>	<b>Concentration</b>
Form R - Reporting requirements	: No listed substance		
<u>California Prop. 65</u>	: No listed substance		

### Section 16. Other information



### Section 16. Other information

Date of issue	: 18 Oct 2013
Prepared by	: Regulatory Affairs
	1-800-352-5326

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



Page: 1 Revision Date: 10/09/2008 Print Date: 3/3/2009 MSDS Number: R0091437 Version: 3.0

VALVOLINE® HP 80W-90 GEAR OIL VV831

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland P.O. Box 2219 Columbus, OH 43216 Regulatory Information Number Telephone Emergency telephone 1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)

Product nameVALVOLINE® HP 80W-90 GEAR OILProduct codeVV831Product Use DescriptionNo data

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance: liquid, amber

## CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

#### **Potential Health Effects**

#### **Routes of exposure**

Inhalation, Skin contact, Eye Contact, Ingestion

#### Eye contact

Unlikely to cause eye irritation or injury.

#### Skin contact

Unlikely to cause skin irritation or injury. Prolonged or repeated contact may dry and crack the skin.

#### Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this

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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

#### Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

#### **Target Organs**

No data

#### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

#### **Reproductive hazard**

There are no data available for assessing risk to the fetus from maternal exposure to this material.

Components	CAS-No.	Concentration
DISTILLATES (PETROLEUM),	64742-54-7	>=70-<80%
HYDROTREATED HEAVY PARAF		

#### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.



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VALVOLINE® HP 80W-90 GEAR OIL VV831

#### Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

#### Ingestion

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

#### Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

#### Notes to physician

**Hazards**: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

#### **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Foam, Water spray

#### **Hazardous combustion products**

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, Hydrocarbons

#### **Precautions for fire-fighting**

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of



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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

#### Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

#### **Environmental precautions**

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

#### Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

#### 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

#### Storage

Store in a cool, dry, ventilated area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

#### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical



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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

#### **Exposure controls**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

#### Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

#### **Respiratory protection**

Respiratory protection is not required under normal conditions of use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	amber
Odour	No data
Boiling point/boiling range	218.30 °C / 424.9 °F@ 760.00 mmHg
рН	No data
Flash point	(>)432 °F / 222 °C, Cleveland open cup
Evaporation rate	> 1 (Ethyl Ether)
Explosion limits	No data
Vapour pressure	0.10 mmHg
Vapour density	(>) 1 (AIR=1)
Density	0.8916 g/cm3 @ 60.01 °F / 15.56 °C



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VALVOLINE® HP 80W-90 GEAR OIL VV831

Solubility Partition coefficient: noctanol/water log Pow Autoignition temperature 7.28 lb/gal @ 60.1 °F / 15.6 °C No data No data

no data available No data

### **10. STABILITY AND REACTIVITY**

#### Stability Stable

#### Conditions to avoid None known.

Incompatible products Strong oxidizing agents

#### Hazardous decomposition products carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, Hydrocarbons

### Hazardous reactions

Product will not undergo hazardous polymerization.

#### Thermal decomposition

No data

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute oral toxicity

DISTILLATES (PETROLEUM),	LD 50 Rat: > 15 g/kg
HYDROTREATED HEAVY PARAF	

#### Acute inhalation toxicity

DISTILLATES (PETROLEUM),	no data available
HYDROTREATED HEAVY PARAF	



VALVOLINE® HP 80W-90 GEAR OIL VV831

#### Acute dermal toxicity

DISTILLATES (PETROLEUM),	LD 50 Rabbit: > 5 g/kg
HYDROTREATED HEAVY PARAF	

#### **12. ECOLOGICAL INFORMATION**

#### Aquatic toxicity

Acute and Prolonged Toxicity to Fish No data Acute Toxicity to Aquatic Invertebrates No data

#### **Environmental fate and pathways**

No data

#### **13. DISPOSAL CONSIDERATIONS**

#### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

#### **14. TRANSPORT INFORMATION**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **15. REGULATORY INFORMATION**

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.



#### VALVOLINE® HP 80W-90 GEAR OIL VV831

SARA Hazard Classification No SARA Hazards

#### SARA 313 Component(s)

Reportable quantity - ComponentsDISTILLATES (PETROLEUM),64742-54-7HYDROTREATED HEAVY PARAF				none
HMIS NFPA	<b>Health</b> 1 1	<b>Flammability</b> 1 1	<b>Reactivity</b> 0 0	Other

#### **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).



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VALVOLINE® HP 80W-90 GEAR OIL VV831

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland P.O. Box 2219 Columbus, OH 43216 Regulatory Information Number Telephone Emergency telephone 1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)

Product nameVALVOLINE® HP 80W-90 GEAR OILProduct codeVV831Product Use DescriptionNo data

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance: liquid, amber

## CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

#### **Potential Health Effects**

#### **Routes of exposure**

Inhalation, Skin contact, Eye Contact, Ingestion

#### Eye contact

Unlikely to cause eye irritation or injury.

#### Skin contact

Unlikely to cause skin irritation or injury. Prolonged or repeated contact may dry and crack the skin.

#### Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this

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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

#### Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

#### **Target Organs**

No data

#### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

#### **Reproductive hazard**

There are no data available for assessing risk to the fetus from maternal exposure to this material.

Components	CAS-No.	Concentration
DISTILLATES (PETROLEUM),	64742-54-7	>=70-<80%
HYDROTREATED HEAVY PARAF		

#### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.



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#### Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

#### Ingestion

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

#### Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

#### Notes to physician

**Hazards**: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

#### **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Foam, Water spray

#### **Hazardous combustion products**

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, Hydrocarbons

#### **Precautions for fire-fighting**

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of



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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

#### Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

#### **Environmental precautions**

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

#### Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

#### 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

#### Storage

Store in a cool, dry, ventilated area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

#### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical



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#### VALVOLINE® HP 80W-90 GEAR OIL VV831

concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

#### **Exposure controls**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

#### Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

#### **Respiratory protection**

Respiratory protection is not required under normal conditions of use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	amber
Odour	No data
Boiling point/boiling range	218.30 °C / 424.9 °F@ 760.00 mmHg
рН	No data
Flash point	(>)432 °F / 222 °C, Cleveland open cup
Evaporation rate	> 1 (Ethyl Ether)
Explosion limits	No data
Vapour pressure	0.10 mmHg
Vapour density	(>) 1 (AIR=1)
Density	0.8916 g/cm3 @ 60.01 °F / 15.56 °C



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VALVOLINE® HP 80W-90 GEAR OIL VV831

Solubility Partition coefficient: noctanol/water log Pow Autoignition temperature 7.28 lb/gal @ 60.1 °F / 15.6 °C No data No data

no data available No data

### **10. STABILITY AND REACTIVITY**

#### Stability Stable

#### Conditions to avoid None known.

Incompatible products Strong oxidizing agents

#### Hazardous decomposition products carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, Hydrocarbons

### Hazardous reactions

Product will not undergo hazardous polymerization.

#### Thermal decomposition

No data

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute oral toxicity

DISTILLATES (PETROLEUM),	LD 50 Rat: > 15 g/kg
HYDROTREATED HEAVY PARAF	

#### Acute inhalation toxicity

DISTILLATES (PETROLEUM),	no data available
HYDROTREATED HEAVY PARAF	



VALVOLINE® HP 80W-90 GEAR OIL VV831

#### Acute dermal toxicity

DISTILLATES (PETROLEUM),	LD 50 Rabbit: > 5 g/kg
HYDROTREATED HEAVY PARAF	

#### **12. ECOLOGICAL INFORMATION**

#### Aquatic toxicity

Acute and Prolonged Toxicity to Fish No data Acute Toxicity to Aquatic Invertebrates No data

#### **Environmental fate and pathways**

No data

#### **13. DISPOSAL CONSIDERATIONS**

#### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

#### **14. TRANSPORT INFORMATION**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **15. REGULATORY INFORMATION**

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.



#### VALVOLINE® HP 80W-90 GEAR OIL VV831

SARA Hazard Classification No SARA Hazards

#### SARA 313 Component(s)

Reportable quantity - ComponentsDISTILLATES (PETROLEUM),64742-54-7HYDROTREATED HEAVY PARAF				none
HMIS NFPA	<b>Health</b> 1 1	<b>Flammability</b> 1 1	<b>Reactivity</b> 0 0	Other

#### **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).



#### VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

## **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274- 5263)
Product name	VALVOLINE® MP 2-CYCLE TC-V	W3 MOTOR OIL
Product code Product Use Description	VV461 No data	

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance: liquid,

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN, CAUSE IRRITATION AND BURNS.

#### **Potential Health Effects**

#### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

#### Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

#### Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

#### Ingestion

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#### VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

#### Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, lung (for example, asthma-like conditions), skin

#### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects

#### **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

#### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

#### **Reproductive hazard**

There are no data available for assessing risk to the fetus from maternal exposure to this material.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
DISTILLATES, SOLVENT-REFINED HEAVY	64741-88-4	>=30-<40%



#### VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

PAKAFFINIC		
DISTILLATES, SWEETENED MIDDLE	64741-86-2	>=15-<20%
ALIPHATIC PETROLEUM DISTILLATES	8052-41-3	>=5-<10%

#### 4. FIRST AID MEASURES

#### Eyes

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If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

#### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

#### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

#### Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

#### Notes to physician

**Hazards**: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.



## **5. FIRE-FIGHTING MEASURES**

## Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Water spray

#### Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, Sulphur oxides, Aldehydes, various hydrocarbons

#### **Precautions for fire-fighting**

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

## NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

#### **Environmental precautions**

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

#### Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).



#### **Other information**

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

## 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

#### Storage

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

DISTILLATES, SOLVEN PARAFFINIC	T-REFINED HEAVY	64741-88-4	
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,000 mg/m3	
OSHA Z1A	time weighted average	400 ppm	
OSHA Z1A	time weighted average	1,600 mg/m3	
US CA OEL	Time Weighted Average	400 ppm	
	(TWA) Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average	1,600 mg/m3	
	(TWA) Permissible		
	Exposure Limit (PEL):		
ACGIH	time weighted average	5 mg/m3	Mist.
ACGIH	Short term exposure limit	10 mg/m3	Mist.
ACGIH NIC	time weighted average	0.2 mg/m3	Inhalable fraction.



ALIPHATIC PETROLEUN	M DISTILLATES	8052-41-3
ACGIH	time weighted average	100 ppm
NIOSH	Recommended exposure	350 mg/m3
	limit (REL):	
NIOSH	Ceiling Limit Value and	1,800 mg/m3
	Time Period (if	
	specified):	
OSHA Z1	Permissible exposure	500 ppm
	limit	
OSHA Z1	Permissible exposure	2,900 mg/m3
	limit	
OSHA Z1A	time weighted average	100 ppm
OSHA Z1A	time weighted average	525 mg/m3
US CA OEL	Time Weighted Average	100 ppm
	(TWA) Permissible	
	Exposure Limit (PEL):	
US CA OEL	Time Weighted Average	525 mg/m3
	(TWA) Permissible	
	Exposure Limit (PEL):	
	Exposure Limit (PEL):	

## General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

## **Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

## Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

#### Skin and body protection

Wear resistant gloves such as: Neoprene

Nitrile rubber

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact



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#### VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

## **Respiratory protection**

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Form Colour Odour Boiling point/boiling range Melting point/range	liquid no data available no data available hydrocarbon-like (>)356 °F / 180 °C @ 760.00 mmHg (<)-38 °F / -39 °C
Sublimation point	no data available
pH	no data available
Flash point	(>)66.00 °C Cleveland open cup
Ignition temperature	no data available
Evaporation rate	0.1 butyl acetate=1
Lower explosion limit/Upper explosion limit	1.0 %(V) / 6.0 %(V)
Particle size	no data available
Vapour pressure	0.200 mmHg @ 68 °F / 20 °C
Relative vapour density	no data available
Density	(Average) 0.8550 g/cm3 @ 68 °F / 20 °C
Bulk density	No data
Water solubility	insoluble
Solubility	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available



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#### VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

Viscosity, kinematic Solids in Solution Decomposition temperature Burning number Dust explosion constant Minimum ignition energy 6.9 mm2/s no data available no data available no data available no data available no data available

## **10. STABILITY AND REACTIVITY**

#### Stability

Stable.

## **Conditions to avoid**

Heat, flames and sparks.

Incompatible products Strong oxidizing agents

#### Hazardous decomposition products

carbon dioxide and carbon monoxide, Sulphur oxides, Hydrocarbons, Aldehydes, various hydrocarbons

#### **Hazardous reactions**

Product will not undergo hazardous polymerization.

#### Thermal decomposition

No data

## **11. TOXICOLOGICAL INFORMATION**

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VALVOLINE® MP 2-CYCLE TC-W3 MOTOR
OIL
VV461

Acute inhalation toxicity DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC DISTILLATES, SWEETENED MIDDLE ALIPHATIC PETROLEUM DISTILLATES	<ul> <li>: LD 50 Rat: &gt; 3.9 mg/L; 4 h</li> <li>: no data available</li> <li>: no data available</li> </ul>
<b>Acute dermal toxicity</b> DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	: LD 50 Rabbit: > 2,000 mg/kg
DISTILLATES, SWEETENED MIDDLE	: no data available
ALIPHATIC PETROLEUM DISTILLATES	: LD 50 Rabbit: (>) 3 g/kg

## **12. ECOLOGICAL INFORMATION**

<b>Biodegradability</b> DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC DISTILLATES, SWEETENED MIDDLE	:	no data available no data available
ALIPHATIC PETROLEUM DISTILLATES	:	no data available
Bioaccumulation		
DISTILLATES, SOLVENT-REFINED HEAVY		no data available
PARAFFINIC	•	
DISTILLATES, SWEETENED MIDDLE	:	no data available
ALIPHATIC PETROLEUM DISTILLATES	:	no data available
Ecotoxicity effects		
<b>Toxicity to fish</b> DISTILLATES, SOLVENT-REFINED HEAVY	:	no data available



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## VALVOLINE® MP 2-CYCLE TC-W3 MOTOR OIL VV461

PARAFFINIC	
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
Toxicity to daphnia and other aquatic invertebrates.	
DISTILLATES, SOLVENT-REFINED HEAVY : PARAFFINIC	no data available
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
Toxicity to algae	
DISTILLATES, SOLVENT-REFINED HEAVY : PARAFFINIC	no data available
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
Toxicity to bacteria	
DISTILLATES, SOLVENT-REFINED HEAVY : PARAFFINIC	no data available
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
<b>Biochemical Oxygen Demand (BOD)</b>	
DISTILLATES, SOLVENT-REFINED HEAVY : PARAFFINIC	no data available
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
Chemical Oxygen Demand (COD)	
DISTILLATES, SOLVENT-REFINED HEAVY : PARAFFINIC	no data available
DISTILLATES, SWEETENED MIDDLE :	no data available
ALIPHATIC PETROLEUM DISTILLATES :	no data available
Additional ecological information	
DISTILLATES, SOLVENT-REFINED HEAVY :	no data available



#### PARAFFINIC DISTILLATES, SWEETENED MIDDLE

: no data available

ALIPHATIC PETROLEUM DISTILLATES

: no data available

## **13. DISPOSAL CONSIDERATIONS**

## Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION
---------------------------

#### REGULATION

ID	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
NUMBER		CLASS	HAZARDS	GROUP	POLLUTANT
					/ LTD. QTY.
U.S. DOT - ROAD					

Not dangerous goods

#### U.S. DOT - RAIL

Not dangerous goods

#### **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

#### TRANSPORT CANADA - ROAD

Not dangerous goods

#### TRANSPORT CANADA - RAIL

Not dangerous goods

## TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

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Not dangerous goods

## **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

#### **INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER** Not dangerous goods

## **MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND** WASTES

Not dangerous goods

## **\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## **15. REGULATORY INFORMATION**

## California Pron 65

Camorina Frop. 05	
This product does not contain any chemicals known to State of	
California to cause cancer, birth defects, or any other reproductive	
harm.	
SADA Harand Classification	
SARA Hazard Classification	

Fire Hazard	
Acute Health Hazard	
New Jersey RTK Label Information	
DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4
DISTILLATES, SWEETENED MIDDLE	64741-86-2
LUBRICANT ADDITIVE	
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED	64742-01-4
ALIPHATIC PETROLEUM DISTILLATES	8052-41-3
Pennsylvania RTK Label Information	
DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4
DISTILLATES, SWEETENED MIDDLE	64741-86-2
LUBRICANT ADDITIVE	
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED	64742-01-4
ALIPHATIC PETROLEUM DISTILLATES	8052-41-3

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## Notification status

Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	
China. Inventory of Existing Chemical Substances	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment)	y (positive listing)
Act	
US. Toxic Substances Control Act	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear	y (positive listing)
Waste Control Act	
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)

	HMIS	NFPA
Health	1	1
Flammability	2	2
Physical hazards		
Instability		0
Specific Hazard		

## **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).



Page: 1 Revision Date: 05/23/2008 Print Date: 3/17/2009 MSDS Number: R0172170 Version: 1.6

#### VALVOLINE® GM MULTIPURPOSE GREASE VV615

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland P.O. Box 2219 Columbus, OH 43216 Regulatory Information Number Telephone Emergency telephone 1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)

Product name	VALVOLINE® GM MULTIPURPOSE GREASE
Product code	VV615
Product Use Description	No data

## 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance: solid, amber

## CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

## **Potential Health Effects**

## **Routes of exposure**

Skin contact

#### Eye contact

Unlikely to cause eye irritation or injury.

#### Skin contact

Unlikely to cause skin irritation or injury. Prolonged or repeated contact may dry and crack the skin.

#### Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this

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#### VALVOLINE® GM MULTIPURPOSE GREASE VV615

material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

## Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

## Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea)

## **Target Organs**

No data

## Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

## **Reproductive hazard**

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

|--|

Components	CAS-No.	Concentration
PETROLEUM BASED GREASE		<=100%

## 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

#### Skin

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#### VALVOLINE® GM MULTIPURPOSE GREASE VV615

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

#### Ingestion

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

#### Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

#### Notes to physician

**Hazards:** No information available. **Treatment:** No information available.

## **5. FIRE-FIGHTING MEASURES**

## Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

#### Hazardous combustion products

May form:, carbon dioxide and carbon monoxide, Hydrocarbons

## **Precautions for fire-fighting**

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

## Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

## 6. ACCIDENTAL RELEASE MEASURES

## **Personal precautions**

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VALVOLINE® GM MULTIPURPOSE GREASE VV615

No data

Environmental precautions No data

No data

## Methods for cleaning up

Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material.

## 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

#### Storage

No data

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

## General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

## **Exposure controls**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

## Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.



## VALVOLINE® GM MULTIPURPOSE GREASE VV615

## Skin and body protection

Wear normal work clothing covering arms and legs. Wear resistant gloves such as: Neoprene

## **Respiratory protection**

Respiratory protection is not required under normal conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Dhysical state	aalid
Physical state	solid
Form	Semisolid, gel
Colour	amber
Odour	No data
Boiling point/boiling range	371.10 °C / 700.0 °F
рН	No data
Flash point	450 °F / 232 °C
Evaporation rate	No data
Explosion limits	No data
Vapour pressure	2.00 hPa
Vapour density	No data
Density	0.95 g/cm3 @ 60.1 °F / 15.6 °C
	No data
Solubility	No data
Partition coefficient: n-	No data
octanol/water	
log Pow	no data available
Autoignition temperature	No data

## **10. STABILITY AND REACTIVITY**

## Stability

Stable

Conditions to avoid None known.



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#### VALVOLINE® GM MULTIPURPOSE GREASE VV615

#### Incompatible products

Avoid contact with:, Strong oxidizing agents

## Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons

## **Hazardous reactions**

Product will not undergo hazardous polymerization.

## **Thermal decomposition**

No data

## **11. TOXICOLOGICAL INFORMATION**

#### Acute oral toxicity

PETROLEUM BASED GREASE no data available

#### Acute inhalation toxicity

no data available

## Acute dermal toxicity

PETROLEUM BASED GREASE

## **12. ECOLOGICAL INFORMATION**

#### **Aquatic toxicity**

Acute and Prolonged Toxicity to Fish No data Acute Toxicity to Aquatic Invertebrates No data

#### **Environmental fate and pathways** No data

## **13. DISPOSAL CONSIDERATIONS**

## Waste disposal methods



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#### VALVOLINE® GM MULTIPURPOSE GREASE VV615

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

## **14. TRANSPORT INFORMATION**

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## **15. REGULATORY INFORMATION**

SARA Hazard Classification Acute Health Hazard

## SARA 313 Component(s)

**Reportable quantity - Components** PETROLEUM BASED GREASE

none

	Health	Flammability	Reactivity	Other
HMIS	1	1	0	
NFPA	1	1	0	

## **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

Common Name: VALVOLINE SAE 30 NON-DETERGENT MOTOR OIL Manufacturer: ASHLAND CHEMICAL MSDS Revision Date: 1/24/2008

Grainger Item Number(s): 1UBY5
Manufacturer Model Number(s):

MSDS Table of Contents Click the desired link below to jump directly to that section in the MSDS. 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION 2. HAZARDS IDENTIFICATION 3. COMPOSITION/INFORMATION ON INGREDIENTS 4. FIRST AID MEASURES 5. FIRE-FIGHTING MEASURES 6. ACCIDENTAL RELEASE MEASURES 7. HANDLING AND STORAGE 8. EXPOSURE CONTROLS / PERSONAL PROTECTION 9. PHYSICAL AND CHEMICAL PROPERTIES **10. STABILITY AND REACTIVITY** 11. TOXICOLOGICAL INFORMATION 12. ECOLOGICAL INFORMATION **13. DISPOSAL CONSIDERATIONS 14. TRANSPORT INFORMATION 15. REGULATORY INFORMATION 16. OTHER INFORMATION** ASHLAND(R\*)

SAFETY DATA SHEET

VALVOLINE(R\*) SAE 30 NON-DETERGENT MOTOR OIL VV265

REVISION DATE: 01/24/2008

PRINT DATE: 3/6/2008

MSDS NUMBER: R0169702

VERSION: 1.4

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

#### AND OF THE COMPANY/UNDERTAKING

ASHLAND P.O. BOX 2219 COLUMBUS, OH 43216

REGULATORY INFORMATION NUMBER: 1-800-325-3751 TELEPHONE: 614-790-3333 EMERGENCY TELEPHONE: 1-800-ASHLAND (1-800-274-5263)

PRODUCT NAME: VALVOLINE(R\*) SAE 30 NON-DETERGENT MOTOR OIL

PRODUCT CODE: VV265

PRODUCT USE DESCRIPTION: NO DATA

2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** 

APPEARANCE: LIQUID, AMBER

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: NO DATA

EYE CONTACT: UNLIKELY TO CAUSE EYE IRRITATION OR INJURY.

SKIN CONTACT: MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING OF SKIN, AND SKIN BURNS.

**INGESTION:** 

SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. THIS MATERIAL CAN GET INTO THE LUNGS DURING SWALLOWING OR VOMITING. THIS RESULTS IN LUNG INFLAMMATION AND OTHER LUNG INJURY.

INHALATION:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND USE (FOR EXAMPLE, DURING HEATING, SPRAYING, OR STIRRING). BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS ARE NOT EXPECTED AT AIR CONCENTRATIONS BELOW THE RECOMMENDED EXPOSURE LIMITS, IF APPLICABLE (SEE SECTION 8.).

AGGRAVATED MEDICAL CONDITION: PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL: SKIN, LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS)

#### SYMPTOMS:

SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), ABDOMINAL PAIN

TARGET ORGANS: NO DATA

#### CARCINOGENICITY:

THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), THE NATIONAL TOXICOLOGY PROGRAM (NTP), OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). USED MOTOR OIL HAS BEEN SHOWN TO CAUSE SKIN CANCER IN LABORATORY ANIMALS CONTINUALLY EXPOSED BY REPEATED APPLICATIONS. AVOID PROLONGED OR REPEATED SKIN CONTACT.

#### REPRODUCTIVE HAZARD:

THERE ARE NO DATA AVAILABLE FOR ASSESSING RISK TO THE FETUS FROM MATERNAL EXPOSURE TO THIS MATERIAL.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS-NO.	CONCENTRATION
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	>/=60-<70%
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	>/=10-<15%
PETROLEUM DISTILLATE	NJTS# 800986-5245P	>/=10-<15%

4. FIRST AID MEASURES

#### EYES:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

#### SKIN:

REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.

#### INGESTION:

SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

#### INHALATION:

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

#### HAZARDS:

ACUTE ASPIRATION OF LARGE AMOUNTS OF OIL-LADEN MATERIAL MAY PRODUCE A SERIOUS ASPIRATION PNEUMONIA. PATIENTS WHO ASPIRATE THESE OILS SHOULD BE FOLLOWED FOR THE DEVELOPMENT OF LONG-TERM SEQUELAE. REPEATED ASPIRATION OF SMALL QUANTITIES OF MINERAL OIL CAN PRODUCE CHRONIC INFLAMMATION OF THE LUNGS (I.E. LIPOID PNEUMONIA) THAT MAY PROGRESS TO PULMONARY FIBROSIS. SYMPTOMS ARE OFTEN SUBTLE AND RADIOLOGICAL CHANGES APPEAR WORSE THAN CLINICAL ABNORMALITIES. OCCASIONALLY, PERSISTENT COUGH, IRRITATION OF THE UPPER RESPIRATORY TRACT, SHORTNESS OF BREATH WITH EXERTION, FEVER, AND BLOODY SPUTUM OCCUR. INHALATION EXPOSURE TO OIL MISTS BELOW CURRENT WORKPLACE EXPOSURE LIMITS IS UNLIKELY TO CAUSE PULMONARY ABNORMALITIES.

TREATMENT: NO INFORMATION AVAILABLE.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, DRY POWDER, FOAM, CARBON DIOXIDE (CO2)

HAZARDOUS COMBUSTION PRODUCTS:

MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND PHOSPHORUS, HYDROCARBONS

#### PRECAUTIONS FOR FIRE-FIGHTING:

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. WEAR FULL FIREFIGHTING TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCBA). DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS OF LIQUID SINCE THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY. FROTHING CAN BE VIOLENT AND POSSIBLY ENDANGER ANY FIREFIGHTER STANDING TOO CLOSE TO THE BURNING LIQUID.

FLAMMABILITY CLASS FOR FLAMMABLE LIQUIDS: COMBUSTIBLE LIQUID CLASS IIIB

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: FOR PERSONAL PROTECTION SEE SECTION 8. SPILLS OF THIS MATERIAL ARE VERY SLIPPERY.

ENVIRONMENTAL PRECAUTIONS:

PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURRED.

#### METHODS FOR CLEANING UP:

PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

OTHER INFORMATION: NOTIFY THE PROPER AUTHORITIES AS REQUIRED THAT A SPILL HAS OCCURRED. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

7. HANDLING AND STORAGE

HANDLING:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

Non Detergent SAE 30 Motor Oil VV265 STORAGE: NO DATA 8. EXPOSURE CONTROLS / PERSONAL PROTECTION **EXPOSURE GUIDELINES:** HYDROTREATED LIGHT PARAFFINIC DISTILLATE 64742-55-8: ACGIH: TIME WEIGHTED AVERAGE: 5 MG/M3 MIST. ACGIH: SHORT TERM EXPOSURE LIMIT: 10 MG/M3 MIST. ACGIH NIC: TIME WEIGHTED AVERAGE: 0.2 MG/M3 INHALABLE FRACTION. DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0: OSHA Z1: PERMISSIBLE EXPOSURE LIMIT: 500 PPM OSHA Z1: PERMISSIBLE EXPOSURE LIMIT: 2,000 MG/M3 OSHA Z1A: TIME WEIGHTED AVERAGE: 400 PPM OSHA Z1A: TIME WEIGHTED AVERAGE: 1,600 MG/M3 US CA OEL: TIME WEIGHTED AVERAGE (TWA): 400 PPM PERMISSIBLE EXPOSURE LIMIT (PEL): US CA OEL: TIME WEIGHTED AVERAGE (TWA): 1,600 MG/M3 PERMISSIBLE EXPOSURE LIMIT (PEL): ACGIH: TIME WEIGHTED AVERAGE: 5 MG/M3 MIST. ACGIH: SHORT TERM EXPOSURE LIMIT: 10 MG/M3 MIST. ACGIH NIC:

Non Detergent SAE 30 Motor Oil VV265 TIME WEIGHTED AVERAGE: 0.2 MG/M3 INHALABLE FRACTION.

#### **GENERAL ADVICE:**

THESE RECOMMENDATIONS PROVIDE GENERAL GUIDANCE FOR HANDLING THIS PRODUCT. PERSONAL PROTECTIVE EQUIPMENT SHOULD BE SELECTED FOR INDIVIDUAL APPLICATIONS AND SHOULD CONSIDER FACTORS WHICH AFFECT EXPOSURE POTENTIAL, SUCH AS HANDLING PRACTICES, CHEMICAL CONCENTRATIONS AND VENTILATION. IT IS ULTIMATELY THE RESPONSIBILITY OF THE EMPLOYER TO FOLLOW REGULATORY GUIDELINES ESTABLISHED BY LOCAL AUTHORITIES.

#### EXPOSURE CONTROLS:

GENERAL ROOM VENTILATION SHOULD BE ADEQUATE FOR NORMAL CONDITIONS OF USE. HOWEVER, IF UNUSUAL OPERATING CONDITIONS EXIST, PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW EXPOSURE GUIDELINES (IF APPLICABLE) OR BELOW LEVELS THAT CAUSE KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS.

EYE PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. WEAR SPLASH-PROOF SAFETY GOGGLES IF MATERIAL COULD BE MISTED OR SPLASHED INTO EYES.

#### SKIN AND BODY PROTECTION:

WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER). WEAR NORMAL WORK CLOTHING INCLUDING LONG PANTS, LONG-SLEEVED SHIRTS AND FOOT COVERING TO PREVENT DIRECT CONTACT OF THE PRODUCT WITH THE SKIN. LAUNDER CLOTHING BEFORE REUSE. IF SKIN IRRITATION DEVELOPS, CONTACT YOUR FACILITY HEALTH AND SAFETY PROFESSIONAL OR YOUR LOCAL SAFETY EQUIPMENT SUPPLIER TO DETERMINE THE PROPER PERSONAL PROTECTIVE EQUIPMENT FOR YOUR USE.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION IS NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

FORM: NO DATA

COLOR: AMBER

ODOR: NO DATA

BOILING POINT/BOILING RANGE: 575.00 DEG. F / 575 DEG. F @ 760.00 MMHg

pH: NO DATA

## Non Detergent SAE 30 Motor Oil VV265 FLASH POINT (>)430.00 DEG. F / 221.11 DEG. C EVAPORATION RATE: NO DATA EXPLOSION LIMITS: NO DATA VAPOR PRESSURE: NO DATA VAPOR DENSITY: (<)1 (AIR=1) **DENSITY:** 0.8890 G/CM3 @ 60.01 DEG. F / 15.56 DEG. C 7.39 LB/GAL 7.39 LB/GAL @ 60.00 DEG. F / 15.56 DEG. C 60.1 DEG. F / 15.6 DEG. C SOLUBILITY: NO DATA PARTITION COEFFICIENT n-OCTANOL/WATER: NO DATA AUTOIGNITION TEMPERATURE: NO DATA **10. STABILITY AND REACTIVITY STABILITY: STABLE** CONDITIONS TO AVOID: AVOID CONTACT WITH: EXCESSIVE HEAT **INCOMPATIBLE PRODUCTS:** AVOID CONTACT WITH: STRONG OXIDIZING AGENTS HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN AND PHOSPHORUS, HYDROCARBONS HAZARDOUS REACTIONS: NO DATA THERMAL DECOMPOSITION: NO DATA 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC: LD50 RAT: >15 G/KG

PETROLEUM DISTILLATE: LD50 RAT: >5,000 MG/KG

ACUTE INHALATION TOXICITY:

ACUTE DERMAL TOXICITY:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC: LD50 RABBIT: >5 G/KG

PETROLEUM DISTILLATE: LD50 RABBIT: >5,000 MG/KG

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: ACUTE AND PROLONGED TOXICITY TO FISH: NO DATA ACUTE TOXICITY TO AQUATIC INVERTEBRATES: NO DATA

ENVIRONMENTAL FATE AND PATHWAYS: NO DATA

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. FOR ASSISTANCE WITH YOUR WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE STREAM REDUCTION, CONTACT ASHLAND DISTRIBUTION'S ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

14. TRANSPORT INFORMATION

DANGEROUS GOODS DESCRIPTIONS (IF INDICATED ABOVE) MAY NOT REFLECT PACKAGE SIZE, QUANTITY, END-USE OR REGION-SPECIFIC EXCEPTIONS THAT CAN BE APPLIED. CONSULT SHIPPING DOCUMENTS FOR DESCRIPTIONS THAT ARE SPECIFIC TO THE SHIPMENT.

Non Detergent SAE 30 Motor Oil VV265 15. REGULATORY INFORMATION

CALIFORNIA PROP. 65: PROPOSITION 65 WARNINGS ARE NOT REQUIRED FOR THIS PRODUCT BASED ON THE RESULTS OF A RISK ASSESSMENT.

SARA HAZARD CLASSIFICATION: ACUTE HEALTH HAZARD

CHRONIC HEALTH HAZARD:

SARA 313 COMPONENT(S):

HMISNFPAHEALTH11FLAMMABILITY11REACTIVITY00OTHER1

16. OTHER INFORMATION

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES. THIS MSDS HAS BEEN PREPARED BY ASHLAND'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT (1-800-325-3751).

Common Name: ZEREX DEX COOL RTU ANTIFREEZE COOLANT Manufacturer: ASHLAND CHEMICAL MSDS Revision Date: 3/3/2008

Grainger Item Number(s): 1PKU5, 1UCC3 Manufacturer Model Number(s):

MSDS Table of Contents Click the desired link below to jump directly to that section in the MSDS. 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION 2. HAZARDS IDENTIFICATION 3. COMPOSITION/INFORMATION ON INGREDIENTS 4. FIRST AID MEASURES 5. FIRE-FIGHTING MEASURES 6. ACCIDENTAL RELEASE MEASURES 7. HANDLING AND STORAGE 8. EXPOSURE CONTROLS / PERSONAL PROTECTION 9. PHYSICAL AND CHEMICAL PROPERTIES **10. STABILITY AND REACTIVITY** 11. TOXICOLOGICAL INFORMATION 12. ECOLOGICAL INFORMATION **13. DISPOSAL CONSIDERATIONS 14. TRANSPORT INFORMATION 15. REGULATORY INFORMATION 16. OTHER INFORMATION** 

ASHLAND(R\*)

SAFETY DATA SHEET

ZEREX(R\*) DEX COOL(TM) RTU ANTIFREEZE COOLANT ZXELRU1

REVISION DATE: 03/03/2008

PRINT DATE: 3/6/2008

MSDS NUMBER: R0382102

VERSION: 1.4

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

#### AND OF THE COMPANY/UNDERTAKING

ASHLAND P.O. BOX 2219 COLUMBUS, OH 43216

REGULATORY INFORMATION NUMBER: 1-800-325-3751

TELEPHONE: 614-790-3333

EMERGENCY TELEPHONE: 1-800-ASHLAND (1-800-274-5263)

PRODUCT NAME: ZEREX(R\*) DEX COOL(TM) RTU ANTIFREEZE COOLANT

PRODUCT CODE: ZXELRU1

PRODUCT USE DESCRIPTION: NO DATA

2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** 

APPEARANCE: LIQUID, ORANGE

#### WARNING!

MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS. HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: INHALATION, SKIN ABSORPTION, SKIN CONTACT, EYE CONTACT, INGESTION

EYE CONTACT: CAN CAUSE EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, REDNESS, AND SWELLING OF EYES.

SKIN CONTACT: CAN CAUSE SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING OF SKIN, AND OTHER SKIN DAMAGE. ALTHOUGH RARE, SKIN CONTACT WITH ETHYLENE GLYCOL MAY CAUSE ALLERGIC SKIN REACTION (DELAYED SKIN RASH WHICH MAY BE

FOLLOWED BY BLISTERING, SCALING AND OTHER SKIN EFFECTS). PASSAGE OF THIS MATERIAL INTO THE BODY THROUGH THE SKIN IS POSSIBLE, AND SKIN CONTACT MAY BE HARMFUL.

#### **INGESTION:**

SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. LIVER, KIDNEY AND BRAIN DAMAGE IN HUMANS HAS RESULTED FROM SWALLOWING LETHAL OR NEAR-LETHAL AMOUNTS OF ETHYLENE GLYCOL.

#### INHALATION:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND USE (FOR EXAMPLE, DURING HEATING, SPRAYING, OR STIRRING). BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS ARE NOT EXPECTED AT AIR CONCENTRATIONS BELOW THE RECOMMENDED EXPOSURE LIMITS, IF APPLICABLE (SEE SECTION 8.).

#### AGGRAVATED MEDICAL CONDITION:

PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL:

SKIN, LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS), LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM, EXPOSURE TO THIS MATERIAL MAY AGGRAVATE ANY PREEXISTING CONDITION SENSITIVE TO A DECREASE IN AVAILABLE OXYGEN, SUCH AS CHRONIC LUNG DISEASE, CORONARY ARTERY DISEASE OR ANEMIAS.

#### SYMPTOMS:

SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), COUGH, CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), CENTRAL NERVOUS SYSTEM EXCITATION (GIDDINESS, LIVELINESS, LIGHT-HEADED FEELING) FOLLOWED BY CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS) AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INVOLUNTARY EYE MOVEMENT, PAIN IN THE ABDOMEN AND LOWER BACK, CYANOSIS (CAUSES BLUE COLORING OF THE SKIN AND NAILS FROM LACK OF OXYGEN), LUNG EDEMA (FLUID BUILDUP IN THE LUNG TISSUE), ACUTE KIDNEY FAILURE (SUDDEN SLOWING OR STOPPING OF URINE PRODUCTION), KIDNEY DAMAGE, LIVER DAMAGE, LUNG DAMAGE, CONVULSIONS, COMA, AND DEATH

TARGET ORGANS:

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: REPRODUCTIVE EFFECTS, KIDNEY DAMAGE, LIVER DAMAGE, CENTRAL NERVOUS SYSTEM DAMAGE, OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: KIDNEY DAMAGE, LIVER DAMAGE

CARCINOGENICITY: THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), THE NATIONAL TOXICOLOGY PROGRAM (NTP), OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

REPRODUCTIVE HAZARD:

ETHYLENE GLYCOL HAS CAUSED BIRTH DEFECTS IN ANIMAL STUDIES AT HIGH ORAL DOSES. HOWEVER, IT DID NOT CAUSE HARM TO THE PREGNANT ANIMAL OR TO THE FETUS WHEN APPLIED TO THE SKIN OF THE PREGNANT ANIMAL., 2-ETHYLHEXANOIC ACID HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMAL STUDIES. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNCERTAIN.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS-NO.	CONCENTRATION
ETHYLENE GLYCOL	107-21-1	>/=60-<70%
2-ETHYLHEXANOIC ACID	149-57-5	>/=1.5-<5%
POTASSIUM HYDROXIDE	1310-58-3	>/=1.5-<5%

#### 4. FIRST AID MEASURES

#### EYES:

IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART; SEEK IMMEDIATE MEDICAL ATTENTION.

#### SKIN:

REMOVE CONTAMINATED CLOTHING. FLUSH EXPOSED AREA WITH LARGE AMOUNTS OF WATER. IF SKIN IS DAMAGED, SEEK IMMEDIATE MEDICAL ATTENTION. IF SKIN IS NOT DAMAGED AND SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.

#### INGESTION:

SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

INHALATION:

Zerex Dex-Cool Antifreeze Coolant IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

#### HAZARDS:

EFFECTS OF ACUTE ETHYLENE GLYCOL POISONING APPEAR IN THREE FAIRLY DISTINCT STAGES. THE INITIAL STAGE OCCURS SHORTLY AFTER EXPOSURE, LASTS 6-12 HOURS, AND IS CHARACTERIZED BY CENTRAL NERVOUS SYSTEM EFFECTS (TRANSIENT EXHILARATION, NAUSEA, VOMITING, AND IN SEVERE CASES, COMA, CONVULSIONS, AND POSSIBLE DEATH). THE SECOND STAGE LASTS FROM 12-36 HOURS AFTER EXPOSURE AND IS INITIATED BY THE ONSET OF COMA. THIS PHASE IS CHARACTERIZED BY TACHYPNIA, TACHYCARDIA, MILD HYPOTENSION, CYANOSIS, AND IN SEVERE CASES, PULMONARY EDEMA, BRONCHOPNEUMONIA, CARDIAC ENLARGEMENT, AND CONGESTIVE FAILURE. THE FINAL STAGE OCCURS 24-72 POST-EXPOSURE AND IS CHARACTERIZED BY RENAL FAILURE, RANGING FROM A MILD INCREASE IN BLOOD UREA NITROGEN AND CREATININE FOLLOWED BY RECOVERY, TO COMPLETE ANURIA WITH ACUTE TUBULAR NECROSIS THAT CAN LEAD TO DEATH. OXALURIA IS FOUND IN MOST CASES. THE MOST SIGNIFICANT LABORATORY FINDING IN ETHYLENE GLYCOL INTOXICATION IS SEVERE METABOLIC ACIDOSIS.

#### TREATMENT:

THIS PRODUCT CONTAINS ETHYLENE GLYCOL. ETHANOL DECREASES THE METABOLISM OF ETHYLENE GLYCOL TO TOXIC METABOLITES. ETHANOL SHOULD BE ADMINISTERED AS SOON AS POSSIBLE IN CASES OF SEVERE POISONING SINCE THE ELIMINATION HALF-LIFE OF ETHYLENE GLYCOL IS 3 HOURS. IF MEDICAL CARE WILL BE DELAYED SEVERAL HOURS, GIVE THE PATIENT THREE TO FOUR 1-OUNCE ORAL "SHOTS" OF 86-PROOF OR HIGHER WHISKEY BEFORE OR DURING TRANSPORT TO THE HOSPITAL. FOMEPIZOLE (4-METHYLPYRAZOLE) IS AN EFFECTIVE ANTAGONIST OF ALCOHOL DEHYDROGENASE, AND AS SUCH, MAY BE USED AS AN ANTIDOTE IN THE TREATMENT OF ETHYLENE GLYCOL POISONING. HEMODIALYSIS EFFECTIVELY REMOVES ETHYLENE GLYCOL AND ITS METABOLITES FROM THE BODY.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: WATER MIST, CARBON DIOXIDE (CO2), DRY CHEMICAL

HAZARDOUS COMBUSTION PRODUCTS: MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE

PRECAUTIONS FOR FIRE-FIGHTING:

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. PRODUCT IS NOT

FLAMMABLE OR COMBUSTIBLE AS SUPPLIED; HOWEVER, UNDER CERTAIN FIRE CONDITIONS THE PRODUCT MAY CONTRIBUTE TO THE FIRE WHEN ADEQUATELY HEATED. WATER SPRAY CAN BE USED TO REDUCE INTENSITY OF FLAMES AND TO DILUTE SPILLS TO NONFLAMMABLE MIXTURE. NO SPECIAL PRECAUTIONS NECESSARY WHEN FIGHTING FIRES INVOLVING THIS PRODUCT.

FLAMMABILITY CLASS FOR FLAMMABLE LIQUIDS: COMBUSTIBLE LIQUID CLASS IIIB

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: FOR PERSONAL PROTECTION SEE SECTION 8. PERSONS NOT WEARING PROTECTIVE EOUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN

COMPLETED. ENVIRONMENTAL PRECAUTIONS: PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF

OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURRED.

METHODS FOR CLEANING UP: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

7. HANDLING AND STORAGE

HANDLING: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ETHYLENE GLYCOL 107-21-1:

ACGIH: CEILING LIMIT VALUE: 100 MG/M3 AEROSOL.

2-ETHYLHEXANOIC ACID 149-57-5:

ACGIH:

TIME WEIGHTED AVERAGE: 5 MG/M3 INHALABLE FRACTION AND VAPOR

POTASSIUM HYDROXIDE 1310-58-3:

ACGIH: CEILING LIMIT VALUE: 2 MG/M3

NIOSH: RECOMMENDED EXPOSURE LIMIT (REL): 2 MG/M3

GENERAL ADVICE:

THESE RECOMMENDATIONS PROVIDE GENERAL GUIDANCE FOR HANDLING THIS PRODUCT. PERSONAL PROTECTIVE EQUIPMENT SHOULD BE SELECTED FOR INDIVIDUAL APPLICATIONS AND SHOULD CONSIDER FACTORS WHICH AFFECT EXPOSURE POTENTIAL, SUCH AS HANDLING PRACTICES, CHEMICAL CONCENTRATIONS AND VENTILATION. IT IS ULTIMATELY THE RESPONSIBILITY OF THE EMPLOYER TO FOLLOW REGULATORY GUIDELINES ESTABLISHED BY LOCAL AUTHORITIES.

EXPOSURE CONTROLS:

GENERAL ROOM VENTILATION SHOULD BE ADEQUATE FOR NORMAL CONDITIONS OF USE. HOWEVER, IF UNUSUAL OPERATING CONDITIONS EXIST, PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW EXPOSURE GUIDELINES (IF APPLICABLE) OR BELOW LEVELS THAT CAUSE KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS.

EYE PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. WEAR SPLASH-PROOF SAFETY GOGGLES IF MATERIAL COULD BE MISTED OR SPLASHED INTO EYES.

SKIN AND BODY PROTECTION: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

DISCARD GLOVES THAT SHOW TEARS, PINHOLES, OR SIGNS OF WEAR.

WEAR NORMAL WORK CLOTHING INCLUDING LONG PANTS, LONG-SLEEVED SHIRTS AND FOOT COVERING TO PREVENT DIRECT CONTACT OF THE PRODUCT WITH THE SKIN. LAUNDER CLOTHING BEFORE REUSE. IF SKIN IRRITATION DEVELOPS, CONTACT YOUR FACILITY HEALTH AND SAFETY PROFESSIONAL OR YOUR LOCAL SAFETY EQUIPMENT SUPPLIER TO DETERMINE THE PROPER PERSONAL PROTECTIVE EQUIPMENT FOR YOUR USE.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION IS NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

9. PHYSICAL AND CHEMICAL PROPERTIES

Zerex Dex-Cool Antifreeze Coolant PHYSICAL STATE: LIQUID FORM: LIQUID COLOR: ORANGE ODOR: NO DATA BOILING POINT/BOILING RANGE: 226.00 DEG. F / 226 DEG. F @ 760.00 MMHg MELTING POINT/RANGE: -34 DEG. F / -37 DEG. C pH: (AVERAGE) 10.5 FLASH POINT: (>)250.00 DEG. F / 121.11 DEG. C EVAPORATION RATE: NO DATA EXPLOSION LIMITS: NO DATA VAPOR PRESSURE: NO DATA VAPOR DENSITY: NO DATA **DENSITY:** (AVERAGE) 1.0755 G/CM3 @ 60.01 DEG. F / 15.56 DEG. C 8.91 LB/GAL @ 60.00 DEG. F / 15.56 DEG. C SOLUBILITY: NO DATA PARTITION COEFFICIENT n-OCTANOL/WATER: NO DATA AUTOIGNITION TEMPERATURE: NO DATA 10. STABILITY AND REACTIVITY STABILITY: STABLE. CONDITIONS TO AVOID: NONE KNOWN. **INCOMPATIBLE PRODUCTS:** AVOID CONTACT WITH: STRONG ACIDS, STRONG ALKALIS, STRONG OXIDIZING AGENTS HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS REACTIONS: PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

THERMAL DECOMPOSITION: NO DATA

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:

ETHYLENE GLYCOL: LD50 RAT: 6,140 MG/KG LD50 MOUSE: 14,600 MG/KG

2-ETHYLHEXANOIC ACID: LD50 RAT: 3 G/KG

POTASSIUM HYDROXIDE: NO DATA AVAILABLE

ACUTE INHALATION TOXICITY:

ETHYLENE GLYCOL: NO DATA AVAILABLE

2-ETHYLHEXANOIC ACID: LC50 RAT: >600 PPM, 4 H

POTASSIUM HYDROXIDE: NO DATA AVAILABLE

ACUTE DERMAL TOXICITY:

ETHYLENE GLYCOL: LD50 RABBIT: 10,611 MG/KG

2-ETHYLHEXANOIC ACID: LD50 RABBIT: 1,138 MG/KG

POTASSIUM HYDROXIDE: LD50 RABBIT: 1,260 MG/KG

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: ACUTE AND PROLONGED TOXICITY TO FISH: NO DATA ACUTE TOXICITY TO AQUATIC INVERTEBRATES: NO DATA Zerex Dex-Cool Antifreeze Coolant ENVIRONMENTAL FATE AND PATHWAYS: NO DATA

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. FOR ASSISTANCE WITH YOUR WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE STREAM REDUCTION, CONTACT ASHLAND DISTRIBUTION'S ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

14. TRANSPORT INFORMATION

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**15. REGULATORY INFORMATION** 

CALIFORNIA PROP. 65: PROPOSITION 65 WARNINGS ARE NOT REQUIRED FOR THIS PRODUCT BASED ON THE RESULTS OF A RISK ASSESSMENT.

SARA HAZARD CLASSIFICATION: ACUTE HEALTH HAZARD

SARA 313 COMPONENT(S):

ETHYLENE GLYCOL 107-21-1 66.0762%

REPORTABLE QUANTITY - PRODUCT: US. EPA CERCLA HAZARDOUS SUBSTANCES (40 CFR 302): 7567 LBS

**REPORTABLE QUANTITY - COMPONENTS:** 

2-ETHYLHEXANOIC ACID 149-57-5	NONE

POTASSIUM HYDROXIDE 1310-58-3 1000 LBS

HMIS NFPA HEALTH 2\* 2 FLAMMABILITY 1 1 REACTIVITY 0 0 OTHER

16. OTHER INFORMATION

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# **MATERIAL SAFETY DATA SHEET**

	1. Product and Company Identification
Product number	870
Product name	Vandalism Mark & Stain Remover
Effective date	13-Nov-2007
Company information	Claire Manufacturing 500 Vista Ave. Addison, IL 60101 United States
Company phone	General Assistance 630-543-7600
Emergency telephone US	800-424-9300
Emergency telephone outside US	703-527-3887
Supersedes date	02-May-2007
	2. Hazards Identification
Emergency overview	VAPOR HARMFUL. FLAMMABLE CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame.
	Harmful in contact with eyes. Cancer hazard. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Ingestion. Inhalation. Skin contact.
Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Harmful if swallowed. May cause delayed lung damage.
Target organs	Kidney. Central nervous system. Liver. Lungs. Respiratory system.
Chronic effects	Conjunctiva. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Corneal damage. Narcosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the skin. Irritation.
Potential environmental effects	Components of this product are hazardous to aquatic life.
3	. Composition / Information on Ingredients

## 3. Composition / Information on Ingredients

CAS #	Percent
75-09-2	40 - 50
106-97-8	20 - 30
108-88-3	10 - 15
127-18-4	8 - 10
74-98-6	8 - 10
75-56-9	0.1 - 0.5
	1 - 2.5
	75-09-2 106-97-8 108-88-3 127-18-4 74-98-6

	4. First Aid Measures
First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	If exposed or concerned: get medical attention/advice. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
	5. Fire Fighting Measures
Flammable properties	Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.
Extinguishing media	
Suitable extinguishing media	Foam. Dry chemical. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
Specific hazards	Fire may produce irritating, corrosive and/or toxic gases.
	6. Accidental Release Measures
Personal precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
Methods for cleaning up	Should not be released into the environment.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.
	7. Handling and Storage
Handling	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near
	an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid prolonged exposure.
Storage	Level 1 Aerosol.
	Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.
	sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of childre

## 8. Exposure Controls / Personal Protection

## **Exposure limits**

Components	CAS #	TWA	STEL	Ceiling
Methylene Chloride	75-09-2	50 ppm	Not established Not establish	
n-Butane	106-97-8	1000 ppm	Not established Not established	
Toluene	108-88-3	50 ppm	Not established	Not established
Perchloroethylene	127-18-4	25 ppm	100 ppm	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Propylene Oxide	75-56-9	2 ppm	Not established Not establish	
OSHA				
Components	CAS #	TWA	STEL	Ceiling
Methylene Chloride	75-09-2	25 ppm	125 ppm	Not established
Toluene	108-88-3	200 ppm	Not established 300 ppm	
Perchloroethylene	127-18-4	100 ppm	Not established 200 ppm	
Propane	74-98-6	1000 ppm	Not established Not establishe	
	75-56-9	100 ppm	Not established	Not established

Eye / face protection	Wear chemical goggles.
Skin protection	Wear appropriate chemical resistant clothing. Protective gloves.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA).
General hygeine considerations	Do not get this material in contact with skin. Avoid contact with eyes. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties		
Appearance	Not available	
Color	Pale yellow	
Odor	Solvent.	
Physical state	Liquid.	
Form	Aerosol.	
Flammability (HOC)	18.21 kJ/g estimated	
Flash back	Yes	
Pressure	25 - 35 psig @ 70F	
Solubility	Negligible	
Flash point	-156 °F (-104.4 °C) estimated	
Boiling point	77 °F (25 °C) estimated	
Specific gravity	0.8934 estimated	
рН	Not applicable	
	10. Chemical Stability & Reactivity Information	

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Hydrogen chloride. Irritants. Toxic gas. May include oxides of oxides of carbon.
	11. Toxicological Information

Acute effects	Acute LD50: 1715 mg/kg estimated, Rat, Oral Acute LC50: 85 mg/l/4h estimated, Rat, Inhalation Acute LD50: 55930 mg/kg estimated, Rat, Dermal
Sensitization	Not expected to be hazardous by OSHA criteria.
Local effects	Contact may irritate or burn eyes. Liver toxicity. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.

Chronic effects	Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervol system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury Prolonged exposure may cause chronic effects.
Subchronic effects	Kidney injury may occur.
Carcinogenicity	Hazardous by OSHA criteria.
Neurological effects	Hazardous by OSHA criteria.
Mutagenicity	Not expected to be hazardous by OSHA criteria.
Reproductive effects	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.
Epidemiology	Hazardous by OSHA criteria.
Further information	Symptoms may be delayed.
	12. Ecological Information
Ecotoxicity	LC50 31.52 mg/L estimated, Fish, 96.00 Hours, EC50 35.73 mg/L estimated, Daphnia, 48.00 Hours, IC50 2641 mg/L estimated, Algae, 72.00 Hours,
Environmental effects	Harmful to aquatic life.
	13. Disposal Considerations
Waste codes	D001: Waste Flammable material with a flash point <140 F
	D018: Waste Benzene D039: Waste Tetrachloroethylene
Disposal instructions	Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.
	14. Transport Information
L Department of Transportation (DC	
Basic shipping requirements:	
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Additional information:	
Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None
IMDG	
Not regulated as hazardous goo	ods.
ΙΑΤΑ	
Not regulated as hazardous goo	ods.
	15. Regulatory Information
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communicatio Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
Occupational Safety and Health A 29 CFR 1910.1200 hazardous chemical	dministration (OSHA) Yes
	quantity
Methylene Chloride: 1000.0000 Toluene: 1000.0000 Perchloroethylene: 100.0000	, <b>,</b>
29 CFR 1910.1200 hazardous	Yes

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Superfund Amendments and Re		,	
Hazard categories	Delayed Fire Haz Pressure	te Hazard - Yes Hazard - Yes ard - Yes Hazard - Yes y Hazard - No	
Section 302 extremely hazardous substance	No		
Section 311 hazardous cher	nical Yes		
Inventory status			
Country(s) or region	Inventory na	ime	On inventory (yes/no)*
China	Inventory of E	Existing Chemical Substances in China (IECSC)	No
Europe	European Inv	ventory of New and Existing Chemicals (EINECS)	No
Europe	European Lis	t of Notified Chemical Substances (ELINCS)	No
Japan	-	Existing and New Chemical Substances (ENCS)	No
Korea	-	micals List (ECL)	No
United States & Puerto Rico	•	nces Control Act (TSCA) Inventory	No
		ict comply with the inventory requirements administered by th	
State regulations	WARNIN	IG: This product contains a chemical known to the Stand birth defects or other reproductive harm.	<b>e e f</b> ()
U.S Pennsylvania - RTK (Righ	t to Know) List		
Methylene Chloride	75-09-2	Environmental hazard; Special hazardous substance	
n-Butane	106-97-8	Present	
Perchloroethylene Propane	127-18-4 74-98-6	Environmental hazard; Special hazardous substance Present	
Propylene Oxide	75-56-9	Environmental hazard; Special hazardous substance	
Toluene	108-88-3	Environmental hazard	
		16. Other Information	
HMIS® ratings	Health: 2 Flammal Physical		
Prepared by	Regulato	ory Compliance	
Disclaimer	knowledg designed disposal informati	rmation provided in this Safety Data Sheet is correct to ge, information and belief at the date of its publication. I only as a guidance for safe handling, use, processing and release and is not to be considered a warranty or on relates only to the specific material designated and used in combination with any other materials or in any ct.	The information given is g, storage, transportation, quality specification. The I may not be valid for such
Issue date	13-Nov-2	2007	

Material Safety Data Sheet RCVD APR 181		SAX AR	is & Cra MP	FTS (AL	L COLORS)
RCVD APR 181	() [dentity (	Irade Name A	s Used On La	bel);	
CHROMA ACRYLICS, INC.	MSDS NI		<u> </u>	164-2	01-721
Manufacturer 205 BUCKY DRIVE			· 43	9481/	H-814 H
Address	CAS NUIT	ber" 3/9	8, 1.2	ลแสอ	493, 4
LITITZ, PA 17543	Date Prej	pared !			
(717) 625-8865 Phone Number (for Information)	Prepared	BV 14-30	9511	514, 5	<u>505,5</u>
(717) 626-8866	Noter BI	ank enaces an	not permitte	d. If any item	is not applicat
Emergency Phone Number Telex*	ក	formation is av	ailable, the sj	pace must be	marked to Indic
SECTION 1 - MATERIAL IDENTIFICATION AND	INFORM	ATION			
COMPONENTS Chemical Name & Common Names (Hazardous Components 1% or graster; Carcinogens 0.1% or grast	iter)	%.	OSHA PEL		OTHER LI
PRODUCT IS WATER BASED, NON-TOXIC, NON-HAZA					· · · · · · · · · · · · · · · · · · ·
TEMPERA COLORS IN LIQUID FORM, CERTIFIED N					
BY THE ART & CRAFT MATERIALS INSTITUTE.	- 				
1. WATER		50-75%			
2. VARIOUS, ASSORTED COLOR & REFLECTIVE PIG	MENTS				
3. CALCIUM CARBONATE					
4. ACRYLIC THICKENERS					
5. DISPERSANT					
6. PRESERVATIVE-NON-HAZARDOUS AT LEVEL USED	(.4%)			· ·	
*ALL INFORMATION THE SAME FOR ALL SIZES & CO			_		
Non-Hazardous Ingredients	•				
TOTAL		100			
SECTION 2 - PHYSICAL / CHEMICAL CHARACT	ERISTIC	S			
Boiling	Specific	Gravity			
Point 215-275°F Vapor Pressure	(H <sub>2</sub> O = Melting		KNOWN	<u>.</u>	
(mm Hg and Temperature) NCT KNOWN Vapor Density	Point Evaporal	NOT KNO	- D SLOW	ER THAN	15118 1670
Air = D LIGHTER THAN AIR	Water Reactive	NOT KN	· · ·	10.8. 1 0.44 <u>3</u>	_ <u>Pil DCi8</u>
in Water TOTALLY SOLUBLE	Negette		<u></u>		
Appearance And Anter BASED TEMPERA PAINTS			PS: POS	STRIE S	IGHT AMM
SECTION 3 - FIRE AND EXPLOSION HAZARD					UEL
Flash Point and Auto-Ignition Method Used N/A Temperature N/A	Air % by M	ty Limits in Diume	N/A	LEL UNKN	
Extinguisher Media NOT APPLICABLE			<u> </u>		
Special Fire Fighting Procedures NOT APPLICABLE					· · · · · · · · · · · · · · · · · · ·
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<u> </u>					·

V Stable	anditions o Avoid NOT APPLICABLE
Incompetability (Materials to Avoid)	NONE
Hazardous Decomposition Pro-	
HAZARDOUS POLY	MERIZATION Conditions
Will Not Occur	To Avoid NOT APPLICABLE
	- HEALTH HAZARD DATA
PRIMARY ROUTES	□ Inhelation □ Ingestion □ CARCINOGEN □ NTP □ OSHA □ Skin Absorption ♀ Not Hazardous □ LISTED IN □ IARC Monograph >> Not Listed
HEALTH HAZARDS	Acute
	Chronic
Signs and Sympton	
of Exposure Medical Conditions	
Generally Aggravat	ad by Exposure NONE T AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.
Eye Contact	I NID FROLEDORES SEEK INGLEI SDIELENE IV IGUIL HYMINI GEFTING IN STEPPIN
	NONE
Skin Contact	NONE
· · ·	
Inhulation	NONE
Ingestion	
	NONE
SECTION 6	- CONTROL AND PROTECTIVE MEASURES
Respiratory Protect (Specify Type)	ION NEWE NEEDED UNDER NORMAL CONDITIONS
Protective Gloves	NOT REQUIRED
VENTILATION	Local Exhaust N/A
TO SE USED	
Other Protective	N/A
Hyzlenic Work	ment NOT RECUTRED
Practices	as with any water based product
SECTION 7	• PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES
Steps to be Taken Is Spilled Or Relea	If Material DIKE AND CONTAIN SPILL WITH INERT MATERIALS (SAND, SAWDUST, ETC
	SFER CONTENTS TO CONTAINERS FOR DISPOSAL.
Waste Disposal Methods]	NORMAL DISPOSAL
·	
Precautions to be 1 in Handling and St	
Other Precautions a	Ind/or Special Hazards

## **MATERIAL SAFETY DATA SHEET**

DATE OF PREPARATION Feb 20, 2014

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER SP127 PRODUCT NAME VHT® Hi-Temp Engine Enamel 550°F (288°C), Universal Aluminum MANUFACTURER'S NAME VHT PRODUCTS CO. 101 Prospect Ave. Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 247-3270
Regulatory Information	(216) 566-2902
	www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY	(spill, leak, fire, exposure, or
	accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
10	74-98-6	Propane		•
		ACGIH TLV	1000 PPM	760 mm
		OSHA PEL	1000 PPM	
10	106-97-8	Butane		
		ACGIH TLV	1000 PPM	760 mm
		OSHA PEL	800 PPM	
2	64-17-5	Ethanol		
		ACGIH TLV	1000 PPM	44 mm
		OSHA PEL	1000 PPM	
1	67-63-0	2-Propanol		
		ACGIH TLV	200 PPM	33 mm
		ACGIH TLV	400 PPM STEL	
		OSHA PEL	400 PPM	
41	67-64-1	Acetone		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	
16	78-93-3	Methyl Ethyl Ketone		
		ÁCGIH TLV	200 PPM	90.6 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
8	763-69-9	Ethyl 3-Ethoxypropionate		
		ACGIH TLV	Not Available	1.11 mm
		OSHA PEL	Not Available	

## SECTION 3 — HAZARDS IDENTIFICATION

#### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist. EYE or SKIN contact with the product, vapor or spray mist. EFFECTS OF OVEREXPOSURE EYES: Irritation. SKIN: Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

HMIS Codes		
Health 2		
Flammability	3	
Reactivity	1	

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems: • the liver

the reproductive system

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

#### Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

#### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

#### SECTION 4 — FIRST AID MEASURES

- EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN: Wash affected area thoroughly with soap and water.
  - Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

## **SECTION 5 — FIRE FIGHTING MEASURES**

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0 °F	1.0	19.0	Carbon Dioxide, Dry Chemical, Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

#### STORAGE CATEGORY

Not Available

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

#### PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

#### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### **OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.34 lb/gal	759 g/l
SPECIFIC GRAVITY	0.76	
BOILING POINT	<0 - 342 °F	<-18 - 172 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	95%	
EVAPORATION RATE	Faster than	
	ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
pH	7.0	
ORGANIC COMPOUNDS (VOC The	eoretical - As Packa	ged)

VOLATILE ORGANIC COMPOUNDS (VOC 1 Volatile Weight 50.71%

Less Water and Federally Exempt Solvents

#### SECTION 10 — STABILITY AND REACTIVITY

#### STABILITY — Stable

CONDITIONS TO AVOID None known. INCOMPATIBILITY None known. HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION Will not occur

#### SECTION 11 — TOXICOLOGICAL INFORMATION

#### **CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. TOXICOLOGY DATA

Ingredient Name				
Propane				
•	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
Butane				
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
Ethanol				
	LC50 RAT	4HR	Not Available	
	LD50 RAT		7060 mg/kg	
2-Propanol				
	LC50 RAT	4HR	Not Available	
	LD50 RAT		5045 mg/kg	
Acetone				
	LC50 RAT	4HR	Not Available	
	LD50 RAT		5800 mg/kg	
Methyl Ethyl Ketone				
	LC50 RAT	4HR	Not Available	
	LD50 RAT		2740 mg/kg	
Ethyl 3-Ethoxypropiona	ate			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
	Propane Butane Ethanol 2-Propanol Acetone Methyl Ethyl Ketone	Propane LC50 RAT LD50 RAT Butane LC50 RAT LD50 RAT Ethanol LC50 RAT LD50 RAT	Propane       LC50 RAT       4HR         LD50 RAT       4HR         Butane       LC50 RAT       4HR         LD50 RAT       4HR	Propane       LC50 RAT LD50 RAT       4HR       Not Available Not Available         Butane       LC50 RAT LD50 RAT       4HR       Not Available Not Available         Ethanol       LC50 RAT LD50 RAT       4HR       Not Available         Z-Propanol       LC50 RAT LD50 RAT       4HR       Not Available         LD50 RAT       4HR       Not Available       Not Available         LC50 RAT LD50 RAT       4HR       Not Available       Not Available         LD50 RAT       500 mg/kg       S800 mg/kg       Not Available         LD50 RAT       4HR       Not Available       S800 mg/kg         Methyl Ethyl Ketone       LC50 RAT       4HR       Not Available         LD50 RAT       2740 mg/kg       2740 mg/kg         Ethyl 3-Ethoxypropionate       LC50 RAT       4HR       Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

No data available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

#### US Ground (DOT)

May be classed as LTD. QTY. OR ORM-D

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

#### Canada (TDG)

May be classed as LTD. QTY. OR ORM-D

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

IATA/ICAO

UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

## SECTION 15 — REGULATORY INFORMATION

#### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND

% by WT No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

% Element

**CALIFORNIA PROPOSITION 65** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# Victaulic<sup>®</sup> Lubricant SDS (Safety Data Sheet)

victaulic<sup>°</sup> 05.02

1.1. Product Identifier	
Product name	: Victaulic Lubricant
1.2. Intended Use Of The Product	
Use of the substance/preparation	: A Pipe Joint Lubricant. For professional use only.
1.3. Name, Address, And Telephone Of Th	e Responsible Party
Company	Manufacturer
Victaulic Company	JTM Products, Inc.
4901 Kesslersville Road	31025 Carter Street
Easton, PA 18045	Solon, OH 44139
610-559-3300	440-287-2302
web: www.victaulic.com	
1.4. Emergency telephone number	
Emergency number	: 610-559-3300 Hours 9am-5pm EST M-F
SECTION 2: Hazards identification	

# 2.1. Classification of the Substance or Mixture

## Classification (GHS-US)

This material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 2.2. Label Elements

## **GHS-US** labeling

Not applicable

## 2.3. Other Hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

70 – 80% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Job/Owner

# System No. Location Contractor

Submitted By	
Date	

#### Engineer

Spec Section	
Paragraph	
Approved	
Date	



## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product Identifier	%	Classification (GHS-US)
Fatty acids, tall-oil, potassium salts	(CAS No) 61790-44-1	70–80	Not classified
1,2-Propylene glycol	(CAS No) 57-55-6	10–20	Not classified
Mica	(CAS No) 12001-26-2	5–10	Not classified

## SECTION 4: Description of first aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
First-aid measures after inhalation	: If symptoms occur: go into open air and ventilate suspected area Keep at rest and in a position comfortable for breathing.
First-aid measures after skin contact	: Remove contaminated clothing. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting.
4.2. Most important symptoms and effects, bo	oth acute and delayed
Symptoms/injuries	<ul> <li>Not expected to present a significant health hazard under normal conditions of use.</li> </ul>
Symptoms/injuries after inhalation	: Not expected to present a significant inhalation hazard.
Symptoms/injuries after skin contact	: May cause irritation from prolonged/repeated periods of use.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

## 4.3 Indication of any immediate medical attention and special treatment needed

If you feel unwell, get medical advice and attention.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media		
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.	
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.	
5.2. Special hazards arising from the substance	e or mixture	
Fire hazard	: Not considered flammable but may burn at high temperatures.	
Explosion hazard	: Product is not explosive.	
Reactivity	: Hazardous reactions will not occur.	
5.3. Advice for firefighters		
Precautionary measures fire	: Exercise caution when fighting any chemical fire.	
Firefighting instructions	: Use water spray or fog for cooling exposed containers.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	



SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equi	pment and emergency procedures
General measures	: Avoid all contact with eyes, skin, or clothing.
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containment	and cleaning up
For containment	: Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up	: Clear up spills immediately and dispose of waste safely.
6.4. Reference to other sections	
See heading 8, exposure controls and personal	onal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all contact with eyes, skin, or clothing.
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.</li> </ul>

## 7.2. Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)	
Incompatible products	: Strong acids. Strong bases. Strong oxidizers.
Storage conditions	: Store in a dry, cool and well-ventilated place.
Technical measures	: Comply with applicable regulations.

## 7.3. Specific end use(s)

A Pipe Joint Lubricant. For professional use only.



## 8.1. Control parameters

Mica (12001-26-2)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (containing <1% Quartz)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup> (containing <1% Quartz)

## 8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.	e
Personal protective equipment	: Not generally required but may be necessary as conditions warrant.	
Materials for protective clothing	: Chemically resistant materials and fabrics.	
Hand protection	: Protective gloves.	
Eye protection	: Safety glasses	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected exceed exposure limits.	to
Other information	: When using, do not eat, drink or smoke.	



## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Amber viscous paste
Odor	: Mild
Odor threshold	: No data available
рН	: 11
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: < 0°C (32°F)
Freezing point	: No data available
Boiling point	: > 104°C (220°F)
Flash Point	: > 104°C (220°F)
Auto-ignition temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.08 (water = 1)
Density	: 9.01 lbs/gal
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	
VOC content	: 146 g/L

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Hazardous reactions will not occur.

## 10.2. Chemical stability

Stable at standard temperature and pressure.

## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

## 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.



## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity	:	Not classified		
1,2-Propylene glycol (57-55-6)				
LD50 oral rat	20000 mg/kg			
LD50 dermal rabbit	20800 mg/kg			
Skin corrosion/irritation	:	Not classified (pH: 11).		
Serious eye damage/irritation	:	Not classified (pH: 11).		
Respiratory or skin sensitisation	:	Not classified		
Germ cell mutagenicity	:	Not classified		
Carcinogenicity	:	Not classified		
Reproductive toxicity		Not classified		
Specific target organ toxicity (single exposure)		Not classified		
Specific target organ toxicity (repeate exposure)	d :	Not classified		
Aspiration hazard	:	Not classified		
Potential Adverse human health effe symptoms	cts and :	Not expected to present a significant hazard under normal conditions of use.		
Symptoms/injuries after inhalation	:	Not expected to present a significant inhalation hazard.		
Symptoms/injuries after skin contact		May cause skin irritation through repeated/prolonged periods of		
Symptoms/injuries after eye contact	:	May cause eye irritation.		
Symptoms/injuries after ingestion	:	May cause gastrointestinal irritation.		
SECTION 12: Ecological information				

## 12.1. Toxicity

1,2-Propylene glycol (57-55-6)	
LC50 fishes 1	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	10000 mg/l (Exposure time: 24 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	19000 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	41 (41 - 47) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

## 12.2. Persistence and degradability

Victaulic Lubricant		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Victaulic Lubricant		
Bioaccumulative potential	Not established.	
1,2-Propylene glycol (57-55-6)		
BCF fish 1	< 1	

## 12.4. Mobility in soil

No additional information available

## 12.4. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 2	13:	Disposal	considerations
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## 13.1. Waste treatment methods

Waste disposal recommendations

: Dispose of waste material in accordance with all local, regional, national, and international regulations.

## **SECTION 14: Transport information**

In accordance with ICAO/IATA/DOT/TDG

## 14.1. UN number

Not regulated for transport.

## 14.2. UN proper shipping name

Not regulated for transport.

## 14.3. Additional information

## **Overland transport**

No additional information available

## Transport by sea

No additional information available

## Air transport

No additional information available

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

1,2-Propylene glycol (57-55-6)		
Listed on the United States TSCA (Tox	ic Substances Control Act) inventory	
EPA TSCA Regulatory FlagY2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.		
Fatty acids, tall-oil, potassium salts (61790-44-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		



## 15.3. US State regulations

Mica (12001-26-2)
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Hawaii - Occupational Exposure Limits - TWAs
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Idaho - Occupational Exposure Limits - Mineral Dusts
U.S Massachusetts - Right To Know List
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Minnesota - Hazardous Substance List
U.S Minnesota - Permissible Exposure Limits - TWAs
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S New Jersey - Right to Know Hazardous Substance List
U.S New York - Occupational Exposure Limits - Mineral Dusts
U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S Oregon - Permissible Exposure Limits - Mineral Dusts
U.S Pennsylvania - RTK (Right to Know) List
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Vermont - Permissible Exposure Limits - TWAs
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
1,2-Propylene glycol (57-55-6)
U.S Minnesota - Hazardous Substance List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term

## **SECTION 16: Other information**

Other information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

#### Installation

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

#### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Note This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Trademarks

Victaulic is a registered trademarks of Victaulic Company.





## SAFETY DATA SHEET TKO ACID TEST KIT

According to Regulation (EU) No 453/2010

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name	TKO ACID TEST KIT		
Product No.	тко		
Container size	59.15 millilitres.(0.059 Ltr)		
1.2. Relevant identified uses of the substance or mixture and uses advised against			

Identified uses Uses advised against Refrigeration Oil Acid Test Kit.

No uses advised against are identified.

## 1.3. Details of the supplier of the safety data sheet

Supplier

Parker Hannifin Ltd Cortonwood Drive Brampton Barnsley South Yorkshire S73 0UF Tel:+44 1226 273400 email:europecold@parker.com

#### 1.4. Emergency telephone number

#### +1-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

#### Classification (EC 1272/2008)

Classification (1999/45/EEC)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Skin Irrit. 2 - H315;Repr. 2 - H361d;STOT SE 3 - H336;STOT RE 2 -
	H373;Asp. Tox. 1 - H304
Environment	Not classified.
Xn;R48/20, R65. Repr. Cat. 3;R6	i3. Xi;R38. F;R11. R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### Human health

Inhalation of vapour or mist may cause lung oedema. Contains a substance/a group of substances which may cause harm to the unborn child.

#### Physical and Chemical Hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

#### 2.2. Label elements

Contains TOLUENE

#### Label In Accordance With (EC) No. 1272/2008



Signal Word Hazard Statements Danger

H304 H315

H225

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation.

TKO ACID TEST KIT				
	H336	May cause drowsiness or dizziness.		
	H361d	Suspected of damaging the unborn child.		
	H373	May cause damage to organs through prolonged or repeated exposure.		
Precautionary Statements				
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
	P271	Use only outdoors or in a well-ventilated area.		
	P281	Use personal protective equipment as required.		
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
	P308+313	IF exposed or concerned: Get medical advice/attention.		
	P332+313	If skin irritation occurs: Get medical advice/attention.		
Supplementary Precautionary Staten	nents			
	P201	Obtain special instructions before use.		
	P202	Do not handle until all safety precautions have been read and understood.		
	P233	Keep container tightly closed.		
	P240	Ground/bond container and receiving equipment.		
	P241	Use explosion-proof electrical equipment.		
	P242	Use only non-sparking tools.		
	P243	Take precautionary measures against static discharge.		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.		
	P260	Do not breathe vapour/spray.		
	P261	Avoid breathing vapour/spray.		
	P264	Wash contaminated skin thoroughly after handling.		
	P321	Specific treatment (see medical advice on this label).		
	P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.		
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
	P302+352	IF ON SKIN: Wash with plenty of soap and water.		
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.		
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
	P314	Get medical advice/attention if you feel unwell.		
	P331	Do NOT induce vomiting.		
	P362	Take off contaminated clothing and wash before reuse.		
	P403+233	Store in a well-ventilated place. Keep container tightly closed.		
	P403+235	Store in a well-ventilated place. Keep cool.		
	P405	Store locked up.		
	P501	Dispose of contents/container to		

## 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

ETHANOL			30-60%
CAS-No.: 64-17-5	EC No.: 200-578-6		
Classification (EC 1272/2008) Flam. Liq. 2 - H225		Classification (67/548/EEC) F;R11	
TOLUENE			30-60%
CAS-No.: 108-88-3	EC No.: 203-625-9		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Flam. Liq. 2 - H225		F;R11	
Skin Irrit. 2 - H315		Repr. Cat. 3;R63	
Repr. 2 - H361d		Xn;R48/20,R65	
STOT SE 3 - H336		Xi;R38	
STOT RE 2 - H373		R67	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

#### General information

CAUTION! First aid personnel must be aware of own risk during rescue! NOTE! Keep affected person away from heat, sparks and flames!

#### Inhalation

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention.

#### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Rinse mouth thoroughly. Get medical attention.

## Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Contact physician if irritation continues.

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Immediately rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation.

In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. **Ingestion** 

May cause nausea, headache, dizziness and intoxication.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

Prolonged contact may cause redness and/or tearing.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No specific treatment is required.Symptomatic treatment is advised.

## SECTION 5: FIREFIGHTING MEASURES

## 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

#### **Unusual Fire & Explosion Hazards**

Heat may cause the containers to explode. Solvent vapours may form explosive mixtures with air. May travel considerable distance to source of ignition and flash back.

#### Specific hazards

In case of fire, toxic gases may be formed.

#### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes. Do not smoke, use open fire or other sources of ignition.

#### 6.2. Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

#### 6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. DO NOT touch spilled material! Ventilate well. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Clean contaminated area with oil-removing material.

#### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Risk of vapour concentration on the floor and in low-lying areas. Pregnant women should not work with the product, if there is the least risk of exposure.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

#### Storage Class

Flammable liquid storage.

#### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Name	STD	TWA	- 8 Hrs	STEL	- 15 Min	Notes
ETHANOL	WEL	1000 ppm	1920 mg/m3			
TOLUENE	WEL	50 ppm	191 mg/m3	100 ppm	384 mg/m3	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

#### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Provide adequate general and local exhaust ventilation. Provide explosion proof ventilation for high concentrations.

## Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Chemical respirator with organic vapour cartridge.

#### Hand protection

Wear protective gloves. Use protective gloves made of: Viton rubber (fluor rubber).

#### Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

#### Other Protection

Provide eyewash station.

#### Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke.

#### Skin protection

Wear apron or protective clothing in case of contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Clear liquid

Colour	Colourless.
Odour	Solvent.
Solubility	Slightly soluble in water.
Initial boiling point and boiling range	77.8°C
Melting point (°C)	
Not available.	
Relative density	0.86
Bulk Density	
Not available.	
Vapour density (air=1)	1.6
Vapour pressure	19 mm Hg
Evaporation rate	<1 (ButAc=1)
Evaporation Factor	
Not available.	
pH-Value, Conc. Solution	
Not determined.	
pH-Value, Diluted Solution	
Not determined.	
Viscosity	
Not available.	
Solubility Value (G/100G H2O@20°C	c)
Not available.	
Decomposition temperature (°C)	
Not available.	
Odour Threshold, Lower	
Not available.	
Odour Threshold, Upper	
Not available.	
Flash point	4.4°C Cd OC (Cleveland open cup).
Auto Ignition Temperature (°C)	
Not available.	
Flammability Limit - Lower(%)	1.4
Flammability Limit - Upper(%)	7.0
Partition Coefficient	
(N-Octanol/Water) Not available.	
9.2. Other information	

Volatile Organic Compound (VOC) 860 g/litre

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No specific reactivity hazards associated with this product.

#### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

## 10.3. Possibility of hazardous reactions

Not available. Hazardous Polymerisation Will not polymerise. 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. **10.5. Incompatible materials** 

#### Materials To Avoid

Strong oxidising substances. 10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

#### Other Health Effects

Toxic to Reproductive Health Category 3.

#### General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### Inhalation

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness.

#### Ingestion

Harmful: may cause lung damage if swallowed. May cause nausea, headache, dizziness and intoxication.

#### Skin contact

Irritating to skin. Prolonged and frequent contact may cause redness and irritation.

#### Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

#### **Health Warnings**

Solvent vapours are hazardous and may cause nausea, sickness and headaches.

#### Route of entry

Inhalation. Skin and/or eye contact. Ingestion.

#### Target Organs

Skin Respiratory system, lungs

#### Medical Symptoms

Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea).

#### **Medical Considerations**

Avoid vomiting and normal rinse of stomach because of risk of aspiration. Risk of chemical pneumonia after aspiration.

## Specific effects

Contains a substance/a group of substances which may cause harm to the unborn child.

#### Toxicological information on ingredients.

## TKO ACID TEST KIT TOLUENE (CAS: 108-88-3)

#### Acute toxicity:

Acute Toxicity (Oral LD50) > 5000 mg/kg Rat REACH dossier information Based on available data the classification criteria are not met.

## Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rat REACH dossier information Based on available data the classification criteria are not met.

## Acute Toxicity (Inhalation LC50)

> 20 mg/L air Rat 4 hours REACH dossier information

## Skin Corrosion/Irritation:

Erythema\eschar score Well defined erythema (2).

## Oedema score

Very slight oedema -barely perceptible (1). Estimated Value REACH dossier information Irritating.

## Serious eye damage/irritation:

Not Irritating.

## Respiratory or skin sensitisation:

Respiratory sensitisation Data lacking. REACH dossier information Conclusive data but not sufficient for classification. Skin sensitisation Guinea pig maximization test (GPMT): Guinea Pig REACH dossier information Not Sensitising.

## Germ cell mutagenicity:

Genotoxicity - In Vitro Gene Mutation: REACH dossier information Negative. This substance has no evidence of mutagenic properties. Genotoxicity - In Vivo Chromosome aberration: REACH dossier information Negative.

## Carcinogenicity:

Carcinogenicity NOAEC 1200 ppm Inhalation. Rat REACH dossier information No evidence of carcinogenicity in animal studies

## Reproductive Toxicity:

## **Reproductive Toxicity - Fertility**

Two-generation study: NOAEC 500 ppm Inhalation. Rat F1 REACH dossier information

## Reproductive Toxicity - Development

Developmental toxicity: NOAEC 600 ppm Inhalation. Rat

Specific target organ toxicity - repeated exposure: STOT - Repeated exposure LOAEC 600 Inhalation. Rat REACH dossier information

Aspiration hazard: Viscosity Kinematic viscosity <= 20.5 mm2/s. REACH dossier information

## TKO ACID TEST KIT ETHANOL (CAS: 64-17-5)

#### Acute toxicity:

Acute Toxicity (Oral LD50) 10470 mg/kg Rat REACH dossier information Based on available data the classification criteria are not met.

## Acute Toxicity (Dermal LD50)

> 15800 mg/kg Rabbit
 REACH dossier information
 Based on available data the classification criteria are not met.

## Acute Toxicity (Inhalation LC50)

125 mg/l (vapours) Rat 4 hours REACH dossier information Based on available data the classification criteria are not met.

## Skin Corrosion/Irritation:

Dose 0.2mL 24 hr Rat Erythema\eschar score No erythema (0). Oedema score No oedema (0). REACH dossier information Not irritating.

Serious eye damage/irritation: Slightly Irritating. Respiratory or skin sensitisation: Respiratory sensitisation Not available. There is no evidence that the material can lead to respiratory hypersensitivity. Skin sensitisation Local Lymph Node Assay (LLNA) Mouse REACH dossier information

Not Sensitising.

## Germ cell mutagenicity: Genotoxicity - In Vitro Bacterial Reverse Mutation Test REACH dossier information Negative.

This substance has no evidence of mutagenic properties.

## Genotoxicity - In Vivo

Chromosome aberration: REACH dossier information Negative. This substance has no evidence of mutagenic properties.

Carcinogenicity: Carcinogenicity Not available.

Reproductive Toxicity: Reproductive Toxicity - Fertility Not available. This substance has no evidence of toxicity to reproduction. Reproductive Toxicity - Development

Developmental toxicity: LOAEL 8200 mg/kg/day Oral Rat REACH dossier information Conclusive data but not sufficient for classification.

#### Specific target organ toxicity - single exposure:

#### STOT - Single exposure

Not available.

Not classified as a specific target organ toxicant after a single exposure.

## Specific target organ toxicity - repeated exposure:

## STOT - Repeated exposure

Not available.

#### SECTION 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.1. Toxicity

#### Ecological information on ingredients.

TOLUENE (CAS: 108-88-3)

#### Acute Toxicity - Fish

LC50 96 hours 5.5 mg/l Freshwater fish REACH dossier information Acute Toxicity - Aquatic Invertebrates EC50 48 hours 3.78 mg/l Freshwater invertebrates REACH dossier information Acute Toxicity - Aquatic Plants EC50 3 hours 134 mg/l Freshwater algae REACH dossier information

#### ETHANOL (CAS: 64-17-5)

# Acute Toxicity - Fish

LC50 96 hours 15.3 mg/l Pimephales promelas (Fat-head Minnow) REACH dossier information Acute Toxicity - Aquatic Invertebrates EC50 48 hours 5012 mg/l Daphnia magna REACH dossier information Acute Toxicity - Aquatic Plants Not available.

12.2. Persistence and degradability

#### Degradability

There are no data on the degradability of this product.

#### TOLUENE (CAS: 108-88-3)

## Phototransformation

Air. DT50 2.59 days REACH dossier information **Stability (Hydrolysis)** Scientifically unjustified. REACH dossier information **Biodegradation** Water (69%) ~ 5 days Estimated Value REACH dossier information

#### ETHANOL (CAS: 64-17-5)

Phototransformation
Not available.
Stability (Hydrolysis)
Not available.
Biodegradation
Water Degradation ((74%)%) 5 days
REACH dossier information

## 12.3. Bioaccumulative potential

#### **Bioaccumulative potential**

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
Partition coefficient
Not available.

Ecological information on ingredients.

#### TOLUENE (CAS: 108-88-3)

**Bioaccumulation factor** 

## BCF 90 Freshwater fish REACH dossier information **Partition coefficient** log Pow 2.73 REACH dossier information

#### ETHANOL (CAS: 64-17-5)

## Bioaccumulation factor Not available. Partition coefficient log Pow -0.35@24°C REACH dossier information

#### 12.4. Mobility in soil

#### Mobility:

The product is partly soluble in water. May spread in the aquatic environment.

#### Ecological information on ingredients.

#### TOLUENE (CAS: 108-88-3)

#### Adsorption/Desorption Coefficient

Soil Koc < 120 Estimated Value REACH dossier information Surface tension 27.73 mN/m @25°C Estimated Value REACH dossier information

#### ETHANOL (CAS: 64-17-5)

#### Adsorption/Desorption Coefficient

Not applicable. Henry's Law Constant Not available. Surface tension 24.5 mN/m @20°C REACH dossier information

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### Ecological information on ingredients.

#### TOLUENE (CAS: 108-88-3)

Not Classified as PBT/vPvB by current EU criteria.

ETHANOL (CAS: 64-17-5)

Not Classified as PBT/vPvB by current EU criteria.

#### 12.6. Other adverse effects

Not known.

Ecological information on ingredients.

TOLUENE (CAS: 108-88-3)

# Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

#### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

#### 13.1. Waste treatment methods

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Dispose of waste and residues in accordance with local authority requirements.

#### **SECTION 14: TRANSPORT INFORMATION**

#### 14.1. UN number

1993
1993
1993

## 14.2. UN proper shipping name

Proper Shipping Name

FLAMMABLE LIQUID, N.O.S.(TOLUENE, ETHANOL)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	
	<b>A</b>



#### 14.4. Packing group

ADR/RID/ADN Packing group	П
IMDG Packing group	П
ICAO Packing group	П
14.5. Environmental hazards	

Environmentally Hazardous Substance/Marine Pollutant No.

#### 14.6. Special precautions for user

EMS	F-E, S-E
Emergency Action Code	•3YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

#### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### National Regulations

Workplace Exposure Limits 2005 (EH40)

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: OTHER INFORMATION**

Revision Comments	
This is first issue.	
Revision Date	05-2012
Revision	2/05-2012
Supersedes date	11-2010
Risk Phrases In Full	
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R38	Irritating to skin.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.
Hazard Statements In Full	
H315	Causes skin irritation.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs << Organs>> through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.

#### Disclaimer

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- •	Date de révision : 19/03/02 Date d'impression : 11/11/02 Page 1 sur 3	)-1013 4 2023 5 3003 5 3063 5
	SAFETY DATA SHEET	3163 5
	1 - IDENTIFICATION OF PREPARATION AND COMPANY/BUSINESS	3253 7
	Preparation: Name: VITREA 160 GLOSSY ALL COLORS. Product code:	3713 70 4503 70 4913 70
	Company/business: Registered company name: PEBEO INDUSTRIES. Address: 305 AVENUE DU PIC DE BERTAGNE - BP10613881.GEMENOS CEDEX.FRANCE. Telephone: 33 (0) 4.42.32.08.08. Fax:33 (0) 4.42.32.01.70. Telex. Emergency telephone No.: 33 (0) 1.45.45.67.67. Association/Organisation: INRS.	4923 8
	Normal use: N/A 1	
	2 - INFORMATION REGARDING CONSTITUENTS	1
	Hazardous substances present on their own. (present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state) This preparation contains no hazardous substance in this category.	
•	Other substances representing a hazard: No known substance in this category present.	
	Substances present at a concentration below the minimum danger threshold. 603-047-00-0 Cas 108-01-0 EEC 203-542-8 2-DIMETHYLAMINOETHANOL Concentration >=0.00% and <2.50%. Symbol: C R: 10-20/21/22-34 606-021-00-7 Cas 872-50-4 EEC 212-828-1 N-METHYL-2-PYRROLIDONE Concentration >=0.00% and <2.50%. Symbol: Xi R: 36/38	<
	Other substances with occupational exposure limits. No known substance in this category present.	ں بر
	3 - IDENTIFICATION OF HAZARDS	0
	This preparation is not classed as hazardous to health by directive 88/379/EEC. This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site	0
	Other data: ————Packaging < 125 ml	
	4 - FIRST AID.	
	As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.	4
	In the event of splashes or contact with eyes. Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.	
	In the event of splashes or contact with skin. Wash skin thorough with soap and water.	
	In the event of swallowing. If accidently swallowed obatin immediate medical attention.Keep at rest.Do not induce vomiting.	
	5 - FIRE-FIGHTING MEASURES Not relevant.	
	6 - MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE	
	Safety precautions: Consult the safety measures listed under headings 7 and 8.	
	Environmental safety precautions:	

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earth in drums	for waste dispo	sal.		rbent materials su	uch as sand, e	earth, vermiculite, diatom				
Prevent any m	aterial from ente	ering drains or wat	erways.							
Cleaning methods: Clean preferably with a detergent, do not use solvents.										
7 - HANDLING	G AND ST	ORAGE			-		_			
		age premises appl	y to workshops w	here the product	is handled.					
Fire prevention:										
•	by unauthorise	d personnel.								
Storage.										
N/A !							_			
8 - EXPOSUR	E CONTR	OL - PERSC	DNAL SAFE	TY						
Technical mea										
		aundered overalls.		4 170 00-		•				
Exposure limits France	VME-ppm:	D 2098-174-99 VME-mg/m3:	VLE-ppm:	4-176-99: VLE-mg/m3:	Notes:	TMP N°:				
606-021-00-7	• • • · · · · · · · · · · · · · · · · ·	-	-	• mg/m3.	-	-				
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:					
606-021-00-7 ACGIH(TLV)	II,2 TWA-ppm:	19 TWA-mg/m3:	80 STEL-ppm:	C,* STEL-mg/m3:	Notes:	Notes:				
606-021-00-7	-	-	-	-	-	-				
Exposure limits	•									
	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:		-			
9 - PHYSICAL	PROPERT	TIES								
Density:				> 1	. hania					
Acid/base character of preparation: Solubility of preparation in water: Vapour tension at 50°C of volatile constituents:				Diluta	ly basic. ble.					
					/ 110 kPa (1.1	10 bar).				
Physical state:		fluid liquid								
Flash point interva				not relevant.						
When a pH measu		t has a value of:		8.50 .						
Self-ignition tempe Decomposition ter		not relevant. not specified.								
Melting temperatu		not specified.								
Average distillation		f solvents containe	ed:	not rel						
0-STABILITY	AND REA	CTIVITY		_						
The preparation is	stable at the ha	ndling and storage	conditions reco	mmended per § 7	of the safety	data sheet,				
1 - TOXICOLO	GICAL INF	ORMATION	1							
The preparation co	ontains no subst	ance classed as h	azardous per dire	ective 67/548/EE0	).					
2 - ECOLOGIC	AL INFOR	MATION			,-					
No ecological data	on the product i	tself is available.								
3 - DISPOSAL	CONSIDE	RATIONS								
Do not pour into dra	ains or waterway	/s.								
4 - TRANSPOF	RT INFORM	ATION				·······				
Exempt from transp				10 444 441	· · · · · · · · · · · · · · · · · · ·					
Transport product ir transport	n compliance wi	in provisions of the	ADK for road, F	ub for rail, IMDG	ior sea and IC	AU/IATA for air				
		IATION								

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In addition directive 2000/32/EC with the 26<sup>2</sup> adaptation of directive 67/548/EC (Hazardous substances) have been taken Page 3 sur 3 into account.

Packaging < 125 ml.

# **16 - OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Item Numbers: 02950-1109

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Date de révision : 22/05/02 Date d'impression : 11/11/02 Page 1 sur 3	. 0	2950-
Reva 01-20-03	SAFETY DATA SHEET	-
1 - IDENTIFICATION OF	PREPARATION AND COMPANY/BUSINESS	-   -
Preparation: Name: VITREA 160 - RELIEF A Product code:	LL COLORS.	-
	DE BERTAGNE - BP106 - 13881.GEMENOS CEDEX.FRANCE. . Fax:33 (0) 4.42.32.01.70. Telex:. ) 1.45.45.67.67.	
Normal use: N/A !		
2 - INFORMATION REGA	ARDING CONSTITUENTS	-
pure state)	ent on their own. with the toxicological characteristics it would have in a 100% ardous substance in this category.	
Other substances representi No known substance in this cated	ng a hazard:	
-	centration below the minimum danger threshold.	
Other substances with occup No known substance in this categ	•	
3 - IDENTIFICATION OF I	HAZARDS	-
	hazardous to health by directive 88/379/EEC. nmable. Refer to the recommendations regarding the other products present on the site	
Other data: Packaging < 125 ml.		
4 - FIRST AID. As a general rule, in case of doubt NEVER induce swallowing in an u	or if symptoms persist, always call a doctor. nconscious person.	-
-In the event of exposure by in N/A !	halation.	
In the event of splashes or con Remove contact lenses, irrigate co seek medical advice.	ntact with eyes. piously with clean, fresh water for at least 10 minutes, holding the eyelids apart and	
In the event of splashes or cor Wash skin thorougly with soap and		
In the event of swallowing. If accidently swallowed obatin imme	ediate medical attention.Keep at rest.Do not induce vomiting.	
5 - FIRE-FIGHTING MEAS Not relevant.	URES	•
- MEASURES TO BE TA	KEN IN THE EVENT OF ACCIDENTAL SPILLAGE	
Safety precautions: Consult the safety measures listed in	under headings 7 and 8.	

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Page 2 sur 3 Prevent any material from entering drains or waterways.	
Cleaning methods: Clean preferably with a detergent, do not use solvents.	
7 - HANDLING AND STORAGE	
The regulations relating to storage premises apply to works	hops where the product is handled.
Fire prevention: Prevent access by unauthorised personnel.	
Storage. N/A I	
8 - EXPOSURE CONTROL - PERSONAL S	SAFETY
Technical measures. Personnel shall wear regularly laundered overalls.	
Exposure limits per INRS ND 2098-174-99 and NE Substance in this category unknown.	0 2114-176-99:
Exposure limits per 2000/39/EC and 98/24/EC:	
Substance in this category unknown.	್
9 - PHYSICAL PROPERTIES	
Density:	> 1
Acid/base character of preparation:	slightly basic.
Solubility of preparation in water:	Dilutable.
Vapour tension at 50°C of volatile constituents:	not specified.
Physical state:	paste not relevant.
Flash point interval: When a pH measure is possible, it has a value of:	8.50 .
Self-ignition temperature:	not relevant.
Decomposition temperature:	not specified.
Melting temperature interval:	not specified.
Average distillation temperature of solvents contained:	not relevant.
0 - STABILITY AND REACTIVITY	
The preparation is stable at the handling and storage conditio	ins recommended per § 7 of the safety data sheet,
1 - TOXICOLOGICAL INFORMATION	
The preparation contains no substance classed as hazardous	per directive 67/548/EEC.
2 - ECOLOGICAL INFORMATION	
No ecological data on the product itself is available.	<u> </u>
3 - DISPOSAL CONSIDERATIONS	
Do not pour into drains or waterways.	
4 - TRANSPORT INFORMATION	:
Exempt from transport classification and labelling. Transport product in compliance with provisions of the ADR for transport	r road, RID for rail, IMDG for sea and ICAO/IATA for air
5 - STATUTORY INFORMATION	
This preparation was classified in compliance with the directive adaptations	
In addition directive 2000/32/EC with the 26° adaptation of dire into account. Packaging < 125 ml.	ctive 67/548/EC (Hazardous substances) have been taken
- OTHER INFORMATION	
Since the user's working conditions are not known by us, the in our current level of knowledge and on national and community The product must not be used for any purposes other than thos	regulations.

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It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

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# MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	VY-CAL
Manufacturer's Product Code	0174
Other Names	Liquid mud and silt remover.
Major Recommended Uses	As a silt and mud remover in water tanks, cooling towers, and municipal applications.
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	September 2007

### SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Not classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	None allocated.
Poisons Schedule	None allocated.
Risk Phrases	None applicable.
Safety Phrases	None applicable.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	Ingredients		
	Chemical Entity	CAS No	Proportion
'Ingredients determined not to be hazardous'			to 100%

### **SECTION 4 – FIRST AID MEASURES**

Skin	Wash affected areas with soap and running water for several minutes. Seek medical attention if irritation develops.
Eye	Rinse the eyes with water for several minutes, including under the eyelids. Seek medical attention if irritation develops.
Inhalation	Remove victim to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	If swallowed do not induce vomiting. Give water, and give water again if vomiting occurs. Seek medical attention if discom- fort occurs.
First Aid Facilities	An safety shower and eye wash station should be available.
Advice to Doctor	There is no specific antidote. Treat the patient symptomatically.
Additional Information	There are no known medical conditions aggravated by exposure. Target organs: None known. There is no primary route of entry into the body. The primary routes of exposure are skin and eye contact.

### SECTION 5 - FIRE FIGHTING MEASURES SECTION 5 - FIRE FIGHTING MEASURES

Product is non-flammable.	
Suitable Extinguishing Media	Use foam, dry chemical, CO2 or water spray to extinguish fire. Extinguishing media should be chosen based on the nature of the surrounding fire.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.
Fire/Explosive Hazards	Use water spray to cool fire exposed containers to prevent bursting. Spills may be slippery.
Hazchem Code	None allocated.

### MEGA DISTRIBUTORS

PO Box 10185	Phone:	09 473 6505
North Shore Mail Centre	Fax:	09 473 6501
Auckland 0745	Email:	sales@mantek.co.nz



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# MATERIAL SAFETY DATA SHEET

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean UpShut off source of leak, and dyke and contain spill. Absorb spills with an inert material and dispose of waste in a labelled container in accordance with EPA, local, state and Commonwealth regulations. Flush area with water - product can be washed away with water into sewer as it is used as a mud and silt remover.
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### SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations. Always wash thoroughly after contact with the product and before eating, drinking or using toilet facilities.
Conditions for Safe Storage	Store material indoors in its original, closed container when not in use. Keep product from freezing; slowly warm to room temperature and stir thoroughly before use.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	There is no specific information on this product. There are no exposure limits on the component ingredients.	
Engineering Controls	General ventilation is usually adequate.	
Personal Protective Equipment		
Eye/Face Protection	None required under normal conditions of use. Safety glasses should be worn if the method of application presents the likeli- hood of eye contact. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.	
Skin Protection	None required under normal conditions of use. Rubber gloves should be worn if repeated or prolonged skin contact is likely. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance. Wear general duty work clothing and shoes.	
Respiratory Protection	None required under normal conditions of use.	

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light blue, odourless, transparent to hazy slightly viscous liquid.
pH (100%)	7.9
Boiling Point	104°C
Vapour Pressure	17.3mm Hg
Vapour Density	0.6 (Air = 1)
Solubility in Water (g/L)	Complete.
Specific Gravity	1.00 – 1.01 (Water = 1)
Flashpoint	N/A
Flashpoint Method	P.M.C.C.
Flammability Limits (%)	LEL – Not applicable; UEL – Not applicable
% Volatile by volume	99
Evaporation Rate	0.6 (Butyl acetate = 1)
H2O Solubility	Complete

### SECTION 10 - STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide.
Hazardous Decomposition Products	Oxides of carbon.

### MEGA DISTRIBUTORS

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North Shore Mail Centre	Fax:	09 473 6501
Auckland 0745	Email:	sales@mantek.co.nz



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# MATERIAL SAFETY DATA SHEET

### SECTION 11 - TOXICOLOGICAL INFORMATION

Health Effects	
Acute - Swallowed	None. Ingesting large amounts may result in diarrhoea.
Acute - Eye	Direct contact with eyes may cause irritation.
Acute - Skin	None.
Acute - Inhaled	None.
Chronic	No chronic effects known. There are no known medical conditions aggravated by exposure.
Target Organs	None known.
Product Contains Chemicals Listed as Carcinogens by	International Agency for the Research of Cancer (IARC): NO Other: NO

### SECTION 12 - ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. No biological limit allocated.						
Persistence/Degradability	ersistence/Degradability This substance is biodegradable.					
Mobility	Soluble in water.					

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and Commonwealth laws.

### SECTION 14 - TRANSPORT INFORMATION

UN Number	None allocated.
UN Proper Shipping Name	None allocated.
Transport Hazard Class	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packaging Group	None allocated.
Hazchem Code	None allocated.

### **SECTION 15 - REGULATORY INFORMATION**

Poisons Schedule None allocated.

### **SECTION 16 – OTHER INFORMATION**

Initial copy of 16-header MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

### **MEGA** DISTRIBUTORS

PO Box 10185	Phone:	09 473 6505
North Shore Mail Centre	Fax:	09 473 6501
Auckland 0745	Email:	sales@mantek.co.nz



### Safety Data Sheet 1100 WALL BASE ADHESIVE

Safety Data Sheet dated: 7/16/2015 - version 3 Date of first edition: 5/13/2015

### **1. IDENTIFICATION**

**Product identifier** 

Mixture identification:

Trade name: 1100 WALL BASE ADHESIVE

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Roppe Holding Company 1602 North Union St. 44830-1158 - Fostoria - OH - USA Phone: 1-800-537-9527

### **Emergency 24 hour numbers:**

(USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

### 2. HAZARD(S) IDENTIFICATION

**Classification of the chemical** 

### Classification of the chemical

No specific hazards are encountered under normal product use.

### Label elements

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

# List of components Quantity Name Ident. Numb. Classification 0.1-1 % Silica Sand CAS:14808-60-7 Carc. 1A. H35

-				
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A	

# 4. FIRST AID MEASURES

# Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

### N.A.

Indication of any immediate medical attention and special treatment needed

### **5. FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters

### List of components with OEL value

Component	OEL Type Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH		0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens. Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: Paste beige Odour: Slightly latex like Odour threshold: N.A. pH: 9.00 Melting point / freezing point: N.A. Initial boiling point and boiling range: >100 °C (212 °F) Flash point: >100 °C (212 °F) Evaporation rate: same as water Upper/lower flammability or explosive limits: N.A. Vapour density: 1.15 Vapour pressure: 1.00 (kPa 50>C) Relative density: N.A. Solubility in water: Soluble Solubility in oil: N.A. Partition coefficient (n-octanol/water): N.A. Auto-ignition temperature: N.A. Decomposition temperature: N.A. Viscosity: N.A. Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A. Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

### **10. STABILITY AND REACTIVITY**

### Reactivity

Stable under normal conditions

### **Chemical stability**

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### **Incompatible materials**

None in particular.

### Hazardous decomposition products

None

### **11. TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

### Toxicological information on main components of the mixture:

Silica Sand

a) acute toxicity

LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

	a) acute toxicity								
	b) skin corrosion/irritation								
		c) serious eye damage/irritation							
		d) respiratory or skin sensitisation							
		e) germ cell mutagenicity							
	f) carcinogenicity								
	g) reproductive toxicity								
	h) STOT-single exposure								
	i) STOT-repeated expos	ure							
	j) aspiration hazard								
Substance(s) listed on	the IARC Monographs:								
	Silica Sand		Group 1						
Substance(s) listed as	OSHA Carcinogen(s):								
	Silica Sand								
Substance(s) listed as	NIOSH Carcinogen(s):								
	Silica Sand								
Substance(s) listed on	the NTP report on Carcinogens:								
	Silica Sand								
Adont and working	a practicos co that the pre								
Eco-Toxicological I	Information:	oduct is not rele	eased into the environment.						
Eco-Toxicological 1 List of components with	Information: h eco-toxicological properties								
Eco-Toxicological ] List of components with Quantity Component	Information: h eco-toxicological properties	dent. Numb.	Ecotox Infos						
Eco-Toxicological 1 List of components with Quantity Component 0.1-1 % Silica Sand	Information: h eco-toxicological properties i C								
Eco-Toxicological 1 List of components with Quantity Component 0.1-1 % Silica Sand Persistence and	Information: h eco-toxicological properties i C	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A.	Information: h eco-toxicological properties k k degradability	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A.	Information: h eco-toxicological properties k k degradability	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative	Information: h eco-toxicological properties k k degradability	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative	Information: h eco-toxicological properties degradability	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil	Information: h eco-toxicological properties degradability	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil	Information: h eco-toxicological properties degradability potential N.A. N.A.	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil	Information: h eco-toxicological properties degradability potential N.A. N.A.	dent. Numb.	Ecotox Infos						
Eco-Toxicological I List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil Other adverse ef N.A.	Information: h eco-toxicological properties degradability potential N.A. N.A.	dent. Numb.	Ecotox Infos						
Eco-Toxicological 1 List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil I Other adverse ef N.A. 13. DISPOSAL	Information: h eco-toxicological properties degradability potential N.A. M.A. Effects CONSIDERATIONS	dent. Numb.	Ecotox Infos						
Eco-Toxicological 1 List of components with Quantity Component 0.1-1 % Silica Sand Persistence and N.A. Bioaccumulative Mobility in soil I Other adverse ef N.A. 13. DISPOSAL Waste treatment	Information: h eco-toxicological properties degradability potential N.A. ffects CONSIDERATIONS t methods	dent. Numb. CAS: 14808-60-7	Ecotox Infos						

DOT-UN Number: N/A IATA-Un number: N/A IMDG-Un number: N/A

### UN proper shipping name

ADR-Shipping Name: N/A DOT-Proper Shipping Name: N/A IATA-Technical name: N/A IMDG-Technical name: N/A

### Transport hazard class(es)

ADR-Class: N/A DOT-Hazard Class: N/A IATA-Class: N/A IMDG-Class: N/A

Packing group ADR-Packing Group: N/A DOT-Packing group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A **Environmental hazards** Marine pollutant: No Environmental Pollutant: N.A. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N.A. **Special precautions** Department of Transportation (DOT): DOT-Special Provision(s): N/A DOT-Label(s): N/A DOT-Symbol: N/A DOT-Cargo Aircraft: N/A DOT-Passenger Aircraft: N/A DOT-Bulk: N/A DOT-Non-Bulk: N/A Road and Rail (ADR-RID): ADR-Label: N/A ADR-Hazard identification number: N/A ADR-Tunnel Restriction Code: N/A Air (IATA): IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A IATA-Label: N/A IATA-Subrisk: N/A IATA-Erg: N/A IATA-Special Provisions: N/A Sea (IMDG): IMDG-Stowage Code: N/A IMDG-Stowage Note: N/A IMDG-Subrisk: N/A IMDG-Special Provisions: N/A IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: N/A IMDG-MFAG: N/A

### **15. REGULATORY INFORMATION**

### **USA - Federal regulations**

### **TSCA - Toxic Substances Control Act**

### TSCA inventory:

All the components are listed on the TSCA inventory

### TSCA listed substances:

Silica Sand

is listed in TSCA Section 8b

### SARA - Superfund Amendments and Reauthorization Act

### Section 302 - Extremely Hazardous Substances:

no substances listed

### Section 304 - Hazardous substances:

no substances listed

### Section 313 - Toxic chemical list:

no substances listed

### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

### Substance(s) listed under CERCLA:

### CAA - Clean Air Act

### CAA listed substances:

no substances listed

### **CWA - Clean Water Act**

#### CWA listed substances:

no substances listed

### **USA - State specific regulations**

### **California Proposition 65**

### Substance(s) listed under California Proposition 65:

Silica Sand

Listed as carcinogen

### Massachusetts Right to know

### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silica Sand

### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Silica Sand

### **16. OTHER INFORMATION**

#### Code Description

H350.A May cause cancer if inhaled.

H372.A Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/16/2015 - version 3

Product code: 4110

# Additional classification information



HMIS Health: 1 = Slight HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves NFPA Health: 1 = Slight NFPA Flammability: 1 = Combustible if heated NFPA Reactivity: 0 = Minimal NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA). ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

### Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 4. FIRST AID MEASURES

# MATERIAL SAFETY DATA

PRODUCT NAME: Roberts 7200 Superior Wall Base Adhesive PRODUCT CODE: 7200

SECTION 1 - MANUFACTURER IDENTIFICATION MANUFACTURER'S NAME: ROBERTS CONSOLIDATED INDUSTRIES, INC. ADDRESS: 300 Cross Plains Blvd., Dalton, GA 30721 EMERGENCY PHONE: (800)424-9300 (Chemtrec) DATE REVISED: 09/22/2010

### SECTION 11 - HAZARDOUS INGREDIENTS/SARA 111 INFORMATION

No reportable quantities of hazardous ingredients are present per OSHA regulations: 29 CFR 1910-1200. No toxic chemical(s) subject to reporting requirements of Section 313 of Title 111 and of 40 CFR 372 are present.

SECTION 111 - PHYSICAL/CHEMICAL CHARACTERISTICS         BOILING POINT:       212° F         VAPOR DENSITY:       Heavier than air         COATING V.O.C.:       0 grams/liter calculated         SOLUBILITY IN WATER:       Misable in water.         APPEARANCE AND ODOR:       Off white heavy paste with a value	SPECIFIC GRAVITY (H20=1): 1.14 EVAPORATION RATE: Same as water pH: 9.0 – 9.5 PERCENT VOLATILE: 43.5 very mild odor.	
SECTION V - REACTIVITY DATA STABILITY: Stable INCOMPATIBILITY: (Materials to avoid): Strong oxidizers and HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Combustion HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: Excessive Heat
SKIN: Wash with soap and water. Consult physi	<ul> <li>DF EXPOSURE: Contact with eyes and skin may result in slight irrivoSURE: None known.</li> <li>Potential G.I. blockage. Not a likely route of entry under normal h Acute: May cause mild skin irritation. IARC MONOGRAPHS? No</li> <li>DSHA.</li> <li>DSURE: Pre-existing skin disorders.</li> <li>ninutes. See physician if irritation develops.</li> </ul>	
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USI STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR disposal. WASTE DISPOSAL METHOD: Discarded spill residue may be into PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: reach of children. Protect against physical damage. Store in a OTHER PRECAUTIONS: None.	<b>SPILLED:</b> Contain spill by diking to prevent spreading. Use abscinerated. Do not incinerate sealed containers. Dispose according: Keep containers from excessive heat and freezing. Keep cont	g to Federal, State and local regulations.
SECTION VIII - CONTROL MEASURES RESPIRATORY PROTECTION: None should be required. Use in VENTILATION: Use local exhaust. Do not use closed air circulatir OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None. WORK/HYGIENE PRACTICES: Standard hygiene and safe hand	ng system. Open window and doors if necessary.	PROTECTIVE GLOVES: Rubber Gloves. EYE PROTECTION: Goggles
SECTION IX REGULATORY INFORMATION Hazardous Waste 40CFR261: No. Hazardous Substance Superfund: No. All components are in TSCA inventory	Hazardous Waste Number: RQ (Ibs):	
SECTION X SHIPPING DATA D.O.T. Proper shipping Name (49CFR172.101-102): Adhesive D.O.T. Hazard Classification (49CFR172.101-102): D.O.T. Labels required (49CFR172.101-102): None. Bill of Lading Description: Adhesive, NOS	Hazardous Substance (49CFR CERCLA List): No. Primary: None. Secondary: None. D.O.T. Placards Required (49CFR172.504): None. UN/NA Code: NA	RQ: NA Bill of Lading Description: Adhesive, NOS

HMIS CODES: H F R P 100B

> **INFORMATION PHONE: (706) 277-5294** NAME OF PREPARER: M. King

> > of

### SECTION IX - DISCLAIMER

DISCLAIMER: The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Each user should review and determine for themselves, the applicability of the information in the specific context of the intended use.

KEEP OUT OF REACH OF CHILDREN

Manufactured by: ROBERTS CONSOLIDATED INDUSTRIES

# ColorPlace<sup>®</sup>

# Material Safety Data Sheet

Document Code: 20000 Series Version: 00 Date of Preparation 17-APR-2000

# Section 1 - Product and Company Identification

PRODUCT NAME & NUMBERS COLORPLACE<sup>®</sup> Spray Enamel

20000	Gloss White	20007	Sky Blue	20016	Almond
20001	Blue	20008	Gloss Black	20017	Orange
20002	Green	20009	Flat White	20018	Camouflage Green
20003	Yellow	20010	Gray Primer	20025	Banner Red
20004	Flat Black	20011	Rust Resist Primer	20028	Khaki
20005	Red	20014	Clear	20036	Gray
20006	Walnut	20015	Appliance White		

PRODUCT CLASS Aerosol Paint

MANUFACTURER'S NAME Distributed by WAL-MART Stores Inc. Bentoinville, AR 72716 EMERGENCY TELEPHONE NO. (216) 566-2917 INFORMATION TELEPHONE NO. (216) 566-2902

### Section 2 - Composition/Information on Ingredients

% Wt. 15-18	CAS Number 74-98-6	Ingred Propan		Name			
10 10		ACGIH		TWA	2500	PPM	
		OSHA	PEL	TWA	1000	PPM	
15-17	106-97-8	Butane	t i				
		ACGIH	TLV	TWA	800	PPM	
		OSHA	PEL	TWA	800	PPM	
2-7	64742-89-8	Light	Alip	hatic H	Iydroca	arbon	Solvent.
		ACGIH	TLV	TWA	100	PPM	
		OSHA	$\mathbf{PEL}$	TWA	100	PPM	
5-8	64742-89-8	V. M.	& P.	Naphtl	ıa		
		ACGIH	TLV	TWA	300	PPM	
		OSHA	$\mathbf{PEL}$	TWA	300	РРM	
		OSHA	PEL	STEL	400	PPM	
11-45	108-88-3	Toluen	e				
		ACGIH	TLV	TWA	50		(Skin)
		OSHA	PEL	TWA	100	PPM	(Skin)
		OSHA	PEL	STEL	150	PPM	(Skin)
0-1	108-67-8	1,3,5-	Trim	ethylbe	enzene		
		ACGIH	TLV	TWA	25	PPM	
		OSHA	PEL			PPM	
0-2	95-63-6	1,2,4-	Trim	ethylbe			
		ACGIH		TWA	25	PPM	
		OSHA	PEL	TWA	25	PPM	
0-3	111-76-2	2-Buto	-				
	ACGIH	TLV	TWA		4 (Ski	·	
	OSHA	PEL	TWA	25PP)	4 (Ski	n)	

- Continued -

# **ColorPlace**

6-24	67-64-1	Aceton	e							
		ACGIH	TLV	TWA	500	PPM				
		ACGIH	TLV	STEL	750	PPM				
		OSHA	$\mathbf{PEL}$	TWA	1000	PPM (;	Skiı	n)		
0-14	14807-96-6	Talc								
		ACGIH	TLV	TWA	2	Mg/M3	as	Resp.	Dust	
		OSHA	PEL	TWA	2	Mg/M3	as	Resp.	Dust	
0-8	13463-67-7	Titani	um D	ioxide	•					
		ACGIH	TLV	TWA	10	Mg/M3	as	Dust		
		OSHA	PEL	TWA	10	Mg/M3	as	Total	Dust	
		OSHA	PEL	ΆWĽ	5	Mg/M3	as	Kespi	rable	Fraction
0-0.4	1333-86-4	Carbon	Bla	ck.						
		ACGIH	TLV	TWA	3.5	Mg/M3				
		OSHA	PEL	TWA	3.5	Mg/M3				
2	5131-66-8	Butoxy								
(in	20014 only}	ACGIH	Not	Establ	ished					
		OSHA	Not	Establ	ished					
2	112926-00-8	Amorph	lous	Precip		Silica				
(in	20018 only)	ACGIH	TLV	TWA	10	Mg/M3	as	Dust		
		OSHA	PEL	TWA	6	Mg/M3	as	Dust		
1	64742-88-7	Minera	1 Sp	irits.						
(in	20012 only)	ACGIH	TLV	TWA	100	PPM				
		OSHA	PEL	TWA	100	PPM				
5	Unknown	Bronze	-							
(in	20013 only)	ACGIH		Establ						
		OSHA	Not	Establ	ished					

### Section 3 – Hazards Identification

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment. EFFECTS OF OVEREXPOSURE

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Nonc generally recognized.

CANCER INFORMATION

FOR COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

### Section 4 – First Aid Measures

- If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and guiet.
- If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
- If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give conscious patient several glasses of water. Get medical attention.

- Continued -

### Section 5 - Fire Fighting Measures

FLASH POINT	LEL	UEL
Propellant <0 °F PMCC	1.0	12.8
EXTINGUISHING MEDIA		

Carbon Dioxide, Dry Chemical, Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### Section 6 - Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

### Section 7 – Handling and Storage

DOL STORAGE CATEGORY

1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally Keep out of the reach of children.

### Section 8 – Exposure Controls/Personal Protection

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m3 (total dust), 3 mg./m3 (respirable fraction), OSHA PEL 15 mg./m3 (total dust), 5 mg./m3 (respirable fraction).

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

# **ColorPlace**

when sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant aloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### Section 9 - Physical and Chemical Properties

PRODUCT WEIGHT 5.8-6.7 lb./gal. Faster than Ether EVAPORATION RATE Heavier than Air 0.70-0.81 VAPOR DENSITY SPECIFIC GRAVITY <0-395 °F MELTING POINT N.A. BOILING POINT SOLUBILITY IN WATER N.A. 87-94 % VOLATILE VOLUME HMIS RATINGS (Health - Flammability - Reactivity) 2 - 4 - 0

### Section 10 - Stability and Reactivity

STABILITY - Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY None known. HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION

Will not occur

### Section 11 - Toxicological Information

CHRONIC HEALTH HAZARDS

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular, reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung

cancer, however, such exposure levels are not attainable in the workplace. Reports have associated repeated and prolonged overexposure to solvents with

permanent brain and nervous system damage.

# **ColorPlace**<sup>•</sup>

CAS No.         Ingredient Name           74-38-6         Fropace LC50         RAT         Not Available LD50           106-97-8         Butane LC50         RAT         Not Available           106-97-8         Butane LC50         RAT         Not Available           64742-89-8         V. M. & P. Naphtha LC50         Not Available           108-88-3         Toluene LC50         RAT         Not Available           108-87-8         LC50         RAT         Not Available           108-67-8         1.3,5-Trimethylbenzene LC50         RAT         Not Available           108-67-8         1.2,4-Trimethylbenzene LC50         RAT         Not Available           108-67-8         1.2,4-Trimethylbenzene LC50         RAT         Not Available           108-67-8         1.2,4-Trimethylbenzene LC50         RAT         Not Available           111-76-2         2-Butoxypropanol LC50         RAT         Not Available           111-76-2         2-Butoxypropanol LC50         RAT         Not Available           1250         RAT         Not Available         LD50           111-76-2         2-Butoxypropanol LC50         RAT         Not Available           1250         RAT         Not Available         LD50	TOXICOLOGY DATA						
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108-88-3       Toluene         LC50       RAT       4000       PPM         LC50       RAT       636       PPM         108-67-8       1,3,5-Trimethylbenzene       IC50       RAT       Not Available         LD50       RAT       Not Available       IL50       RAT       Not Available         95-63-6       1,2,4-Trimethylbenzene       IC50       RAT       Not Available         LD50       RAT       Not Available       IL50       RAT       S000       MG/KG         111-76-2       2-Butoxypropanol       IC50       RAT       Not Available       IL50       RAT       S660       MG/KG         5131-66-8       Butoxypropanol       IC50       RAT       Not Available       IL50       RAT       Not Available         LD50       RAT       Not Available       IL50       RAT       Not Available         LD50       RAT       16000       PM       IL50       RAT       Not Available         1333-86-4       Carbon Black.       IC50       RAT       HR       Not Available         1333-86-4       Carbon Black.       IC50       RAT       HR       Not Available         ID50       RAT       4HR       Not Avai		LC50	RAT				
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					2000	MG/KG	
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67-64-1       Acetome         LC50       RAT       16000       PPM         LD50       RAT       5800       MG/KG         14807-96-6       Talc       LC50       RAT       4HR       Not Available         LD50       RAT       Jon Available       LD50       RAT       Not Available         13463-67-7       Titanium Dioxide.       LC50       RAT       4HR       Not Available         LD50       RAT       4HR       Not Available       LD50       RAT       >7500       MG/KG         1333-86-4       Carbon Black.       LC50       RAT       4HR       Not Available       LD50         112926-00-8       Amorphous Precipitated Silica       LC50       RAT       Not Available       LD50         112926-00-8       Amorphous Precipitated Silica       LC50       RAT       Not Available         LD50       RAT       4HR       Not Available       LD50       RAT       Not Available         6742-88-7       Mineral Spirits.       LC50       RAT       4T00       MG/KG         Unknown       Bronze Pigment       LC50       RAT       4T00       MG/KG         LD50       RAT       4HR       Not Available       LD50 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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1333-86-4       Carbon Black.         LC50       RAT       4HR       Not Available         LD50       RAT       >15400 MG/KG         112926-00-8       Amorphous Precipitated Silica         LC50       RAT       4HR       Not Available         LD50       RAT       4HR       Not Available         6742-88-7       Mineral Spirits.         LC50       RAT       4HR       >700         LD50       RAT       4700       MG/KG         Unknown       Bronze Figment       LC50       RAT       4HR       Not Available							
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6742-88-7         Mineral Spirits.           LC50         RAT         4HR         >700         PPM           LD50         RAT         4700         MG/KG           Unknown         Bronze Pigment         LC50         RAT         4HR         Not Available		LC50	RAT	4HR	Not Av	ailable	
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LC50 RAT 4HR Not Available		LD50	RAT		4700	MG/KG	
	Unknown	Bronze	Pigment	:			
LD50 RAT Not Available			RAT	4HR			
		LD50	RAT		Not Av	ailable	

### Section 12 - Ecological Information

ECOTOXICOLOGICAL INFORMATION

No Data Available.

### Section 13 - Disposal Considerations

WASTE DISPOSAL METHOD

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

### Section 14 – Transport Information

Ground (United State) CONSUMER COMMODITY, ORM-D

Air (United States)	CONSUMER	COMMODITY,	9,	ID8000	О, М	ISCELLANE	OUS LABEL	
	AEROSOLS,	FLAMMABLE,	N	.0.S.,	2.1	, UN1950,	FLAMMABLE (	GAS
	LABEL							

### Section 15 - Regulatory Information

SARA 313 (40	CFR 372.65C) SUPPLIER NOTIFICATION		
CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene.	max 45	
95-63-6	1,2,4-Trimethylbenzene	max 2	
111-76-2	2-Butoxyethano1	max 3	

### CALIFORNIA PROPOSITION 65

WARNING: These products contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

### Section 16 - Other Information

CANADIAN DISTRIBUTOR: Wal-Mart Canada Inc. Mississauga, ON

NOTE: These products have been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the products. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

UNITED COATINGS INC -- 5053 ACCENT BASE, WALMART COLORPLACE LATEX (S MSDS Safety Information \_\_\_\_\_ FSC: 8010 MSDS Date: 06/22/1993 MSDS Num: CFRWR LIIN: 00N079554 Product ID: 5053 ACCENT BASE, WALMART COLORPLACE LATEX (SUPDAT) MFN: 01 Responsible Party Cage: UNITD Name: UNITED COATINGS INC Address: 2850 FESTIVAL DR City: KANKAKEE IL 60901 Info Phone Number: 800-782-7889 Emergency Phone Number: 800-621-1000 Published: Y \_\_\_\_\_ Contractor Summary \_\_\_\_\_ Cage: UNITD Name: UNITED COATINGS INC Address: 2850 FESTIVAL DR City: KANKAKEE IL 60901 Phone: 815-935-1200 Ingredients Cas: 471-34-1 RTECS #: FF9335000 Name: CARBONIC ACID, CALCIUM SALT (1:1); (CALCIUM CARBONATE) % Wt: 20 OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N) \_\_\_\_\_ Cas: 25265-77-4 RTECS #: UF6000000 Name: PROPIONIC ACID, 2-METHYL-, MONOESTER W/2,2,4-TRIMETHYL-1,3-PENTANEDIOL % Wt: <5 OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N) ------Cas: 107-21-1 RTECS #: KW2975000 Name: ETHYLENE GLYCOL (SARA 313) (CERCLA) % Wt: <5 OSHA PEL: N/K (FP N) ACGIH TLV: 50 PPM, VAPOR, C EPA Rpt Qty: 1 LB DOT Rpt Qty: 1 LB \_\_\_\_\_ Cas: 1332-58-7 RTECS #: GF1670500 Name: CLAY (KAOLIN); (KAOLIN) % Wt: <5 OSHA PEL: 15 MG/M3 TDUST ACGIH TLV: 2 MG/M3 TDUST \_\_\_\_\_ RTECS #: 9999999VO

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Name: VOLATILE ORGANIC COMPOUNDS: UNKNOWN.
_____
Health Hazards Data
_____
LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry Inds - Inhalation: NO
Skin: NO
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: SKIN: IRRITATION. ABSORBED THROUGH SKIN.
Explanation Of Carcinogenicity: NOT RELEVANT
First Aid: GET MEDICAL ATTENTION IMMEDIATELY IF NEEDED. INHAL: REMOVE PATIENT.
 KEEP AN OPEN AIRWAY. MONITOR BREATHING. INGEST:DO NOT INDUCE VOMITING. DILUTE
 W/WATER. CALL POISON CONTOL. EYES: DECONTAMINATE PATIENT . IRRIGATE FOR AT
 LEAST 15 MINUTES. SKIN: DECONTAMINATE PATIENT. IRRIGATE.
_____
Handling and Disposal
_____
Spill Release Procedures: MOP OR SOAK UP SUBSTANCE. THIS PRODUCT DOES NOT
 CONTAIN OR MANUFACTURED W/ANY OZONE DEPLETING CHEMICALS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Methods: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL
 REGULATIONS (FP N). DISPOSE OF IN AN ENVIRONMENTALLY SAFE METHOD.
Handling And Storage Precautions: KEEP AWAY FROM EXCESSIVE HEAT TO PREVENT
 PRESSURE BUILD UP IN A CLOSED CONTAINER.
Other Precautions: KEEP AWAY FROM HEAT. AVOID CONTACT W/SKIN OR EYES.
 VENTILATION REQUIRED.
_____
Fire and Explosion Hazard Information
_____
Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N). NON-FLAMMABLE.
Fire Fighting Procedures: USE NIOSH APPROVED SCBA & FULL PROTECTIVE
 EQUIPMENT (FP N).
Unusual Fire/Explosion Hazard: NONE.
_____
Control Measures
______
Respiratory Protection: NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF
 CONCERN (FP N). NONE NORMALLY NECESSARY.
Ventilation: LOCAL EXHAUST: GOOD, ROOM, CROSS VENTILATION IS ADEQUATE.
Protective Gloves: PLASTIC GLOVES.
Eve Protection: ANSI APPROVED CHEM WORKERS GOGGS (FP N).
Other Protective Equipment: ANSI APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER (FP
 N). WEAR OLD CLOTHING THAT CAN BE DISCARDED IF CLTHG SHOULD (SUPDAT)
Work Hygienic Practices: WASH HANDS BEFORE EATING, DRINKING, SMOKING OR USING
 TOILET FACILITIES. DO NOT EAT OR DRINK WHILE USING THIS PRODUCT.
Supplemental Safety and Health: MFR'S TRADE NAME/PART NO:INTERIOR FLAT PAINT.
 OTHER PROT EQUIP: BECOME PAINT STAINED.
_____
Physical/Chemical Properties
_____
B.P. Text: 212F,100C
Vapor Density: HVR/AIR
Spec Gravity: 1
Evaporation Rate & Reference: SLOWER THAN BUTYL ACETATE
Solubility in Water: DILUTABLE
Appearance and Odor: LIQUID; SLIGHT ODOR.
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_____
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Reactivity Data
Stability Indicator: YES
Stability Condition To Avoid: WHILE PRODUCT IS IN A SEALED CONTAINER IT MAY
 GENERATE PRESSURE WHEN HEATED.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NOT RELEVANT
_____
Toxicological Information
_____
_____
Ecological Information
_____
  _____
MSDS Transport Information
_____
_____
Regulatory Information
_____
_____
Other Information
______
_____
HAZCOM Label
_____
Product ID: 5053 ACCENT BASE, WALMART COLORPLACE LATEX (SUPDAT)
Cage: UNITD
Company Name: UNITED COATINGS INC
Street: 2850 FESTIVAL DR
City: KANKAKEE IL
Zipcode: 60901
Health Emergency Phone: 800-621-1000
Label Required IND: Y
Date Of Label Review: 12/01/1997
Status Code: C
Label Date: 12/01/1997
Origination Code: G
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: CAUTION
Respiratory Protection IND: YES
Health Hazard: None
Contact Hazard: Slight
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: ACUTE:SKIN:IRRITATION. ABSORBED THROUGH SKIN.
 CHRONIC:NONE LISTED BY MANUFACTURER.
_____
Disclaimer (provided with this information by the compiling agencies): This
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Disclaimer (provided with this information by the compliing agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.

# Material Safety Data Sheet

24 Hour Assistance: 1-847-367-7700

# Section 1 - Chemical Product / Company Information

Product Name:	CP SPRAY GLOSS WHITE	Revision Date:	01/06/2011
Identification Number:	259862		
Product Use/Class:	Topcoat/ Aerosol		
Supplier:	ROC Sales Inc. 8105 95th St. Pleasant Prairie, WI 53158 USA	Manufacturer:	ROC Sales 8105 95th S Pleasant Pra USA
Preparer:	Regulatory Department		

ROC Sales Inc. 8105 95th St. Pleasant Prairie, WI 53158 USA

# Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	<u>Weight % Less</u> <u>Than</u>		ACGIH TLV-STEL		OSHA PEL CEILING
Acetone	67-64-1	40.0	500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	35.0	N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	10.0	100 ppm	150 ppm	100 ppm	N.E.
Naphtha	8032-32-4	10.0	N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	5.0	10 mg/m3	N.E.	15 mg/m3 (Total Dust)	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	100 ppm	N.E.	100 ppm	N.E.
Ethylbenzene	100-41-4	5.0	100 ppm	125 ppm	100 ppm	N.E.

# Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula.

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

# Section 4 - First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

# Section 5 - Fire Fighting Measures

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Keep containers tightly closed. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

# Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

# Section 7 - Handling And Storage

Handling: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Use only in a well-ventilated area. Avoid breathing vapor or mist. Wash thoroughly after handling. Wash hands before eating.

Storage: Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F. Keep

containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

# Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

# Section 9 - Physical And Chemical Properties

Vapor Density:Heavier than AirAppearance:Aerosolized MistSolubility in H2O:SlightSpecific Gravity:0.732Physical State:Liguid

- Odor: Evaporation Rate: Freeze Point: pH:
- Solvent Like Faster than Ether N.D. N.A.

(See section 16 for abbreviation legend)

# Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

# **Section 11 - Toxicological Information**

Chemical Name	LD50	LC50
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Naphtha	>5000 mg/kg (Rat, Oral)	N.E.
Titanium Dioxide	>7500 mg/kg (Rat, Oral)	N.E.
Aliphatic Hydrocarbon	>5000 mg/kg (Rat, Oral)	N.E.
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.

# Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

# Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

# **Section 14 - Transportation Information**

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

# Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

### Chemical Name

Xylene Ethylbenzene CAS Number 1330-20-7 100-41-4

### **Toxic Substances Control Act:**

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

# U.S. State Regulations: As follows -

### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

### Chemical Name

Modified Alkyd

CAS Number PROPRIETARY

### Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

# Chemical Name

Modified Alkyd

CAS Number PROPRIETARY

### International Regulations: As follows -

### CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

### CANADIAN WHMIS CLASS: AB5 D2A D2B

# Section 16 - Other Information

NFPA Ratings:

Health: 2 Flammability: 4 Instability: 0

### VOLATILE ORGANIC COMPOUNDS, g/L: 513

### **REASON FOR REVISION:** Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

### MATERIAL SAFETY DATA SHEET (SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable Not Est. = Not Established Prop. = Proprietary

### SECTION 1 - MANUFACTURER / DISTRIBUTOR INFORMATION

Product Name: WASH-BRITE Super Concentrated Liquid Laundry Detergent Supplier's Name: National Chemical Laboratories of PA, Inc. Supplier's Address: 401 N. 10<sup>th</sup> Street · Philadelphia PA 19123 HMIS Hazard Code: Health: 1 Flammability: 0 Reactivity: 0 Other: 0 Chemical Family: Blended Detergent D.O.T. Shipping Name: N/A Product #: 1155

Emergency Phone #: CHEM-TEL (800) 255-3924 Chemical Name: N.A. Proprietary Blend Formula: N.A. Blended Product Hazard Class: N/A D.O.T. ID#: N/A

### SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% Concentration Range	Hazard Ratings (TLV/PEL)
Polyethylene Mono(Nonylphenyl) Ether Glycols	9016-45-9	PROP.	Not Est.
Dodecyl Benzenesulfonic Acid, Sodium Salt	25155-30-0	PROP.	Not Est.
2-Butoxyethanol	111-76-2	PROP	25 ppm

### SECTION 3 - PHYSICAL DATA

Boiling Point (°F): 212 Vapor Pressure: = To Water Vapor Density: = To Water Solubility in Water: Complete Appearance: Clear Viscous Blue Liquid Odor: Fougere Specific Gravity: 1.041 Evaporation Rate: = To Water

### SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point (°F): None to boiling (TOC)
 Flammable Limits: Not Est.
 Unusual Fire & Explosion Hazards: Heated product may liberate toxic fumes. Wear self contained breathing apparatus.

### **SECTION 5 - HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation: No Skin: Yes Ingestion: Yes Threshold Limit Value: Not Est.

Effects of Overexposure: May cause skin and eye irritation. May be harmful if swallowed.

**Emergency & First Aid Procedures: For Eyes:** Flush eyes with water for at least fifteen minutes. Seek medical attention. **For Skin:** Flush skin thoroughly with water. If irritation persists seek medical attention. **If ingested:** Do not induce vomiting. Give milk, egg white, gelatin or if none of these are available give large quantities of water. Seek medical attention.

Conditions Aggravated by Exposure: None

### Listed Carcinogen, Mutagen, Teratogen (Ingredient, Source, Amount): None

### **SECTION 6 - REACTIVITY DATA**

Stability: Stable Conditions to Avoid: None Incompatibility: Avoid contact with strong acids and oxidizers Hazardous Decomposition Products: Carbon Oxides Hazardous Polymerization: Will not occur.

### SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: Recontainerize by mopping, wet vacuum, or using a suitable absorbent. Rinse remaining material to drains. Be cautious of slippery floors.Waste disposal method: Follow local, state, and federal regulations.

### SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required Ventilation: Not required Protective Gloves: Not required Eye Protection: Not required Other Protective Equipment: None

### **SECTION 9 – SPECIAL PRECAUTIONS**

**Precautions to be taken in handling and storage:** Store between 40°F and 120°F **Other Precautions:** Keep out of reach of children. For professional use only.

The information contained in this MSDS was obtained from current and reliable sources, however the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of this company, it is not responsible for loss, injury and expense arising out of the product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may be covered by this MSDS. The user is responsible for full compliance.

Date Prepared – 10/05/00 By: G.C.

238	82-1014
	-1015
	-1016
	-1019

# Pidilife

### MATERIAL SAFETY DATA SHEET

### PVA WASHABLE SCHOOL GLUE

SECTION 1. IDENTIFICATION OR COMPANY/BUSINESS

### NAME

ADDRESS

USE : General purpose adhesive.

SECTIONIL-HAZARDOUSICONSTITUENTSIOF MATERIAL

COMPONENT	CAS NUMBER	PERCENT	PERMISSIBLE EXPOSURE LIMIT (TWA)	SHORT TERM EXPOSURE LIMIT[ STEL]
Vinyl acetate homopolymer	NH	21 ± 1 %	NH/NA	NH/NA
Residual Monomer	Not Req.	< 0.3 % Max	CI	CI

SECTION III DENTIFICATION OF HAZARDS

### TOXIC EFFECTS OF EXPOSURE/ CONTACT :

SKIN CONTACT : May irritate skin on prolonged or repeated contact.

EYE CONTACT : May cause slight irritation to eyes.

INHALATION : Vapours can cause irritation of mucous membrane, nausea, headache and drowsiness.

- INGESTION : Moderately toxic.
- DELAYED EFFECTS: Not reported.

### SECTIONIN ERSEAID MEASURES.

SKIN CONTACT : Flush skin with plenty of water while removing contaminated cloths. Wash contaminated cloths before reuse.

EYE CONTACT : Immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician if irritation persist.

**INHALATION** : Move the subject to fresh air. If not breathing, give artificial respiration. If respiration is difficult, give Oxygen and seek help from Physician.

INGESTION : Immediately give two glasses of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.

NOTE TO PHYSICIAN: There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.

 FLAMMABILITY : Non-combustible.
 FLASH POINT : NA

 FLAMMABILITY : Non-combustible.
 FLASH POINT : NA

 EXPLOSIVE LIMITS (% by vol.) : LEL : NA
 UEL : NA

 FIRE EXTINGUISHING MEDIA : Material will not burn. Use Water, Foam, Dry Chemical Powder, CO2 to extinguish the fire.
 THERMAL DECOMPOSITION PRODUCT : May yield acrid smoke and irritating gases with oxides of carbon and organic fragments.

 SPECIAL FIRE FIGHTING PROCEDURE : Wear self contained breathing apparatus or equivalent [MSHA/NIOSH - approved].
 UNUSUAL FIRE AND EXPOLSION HAZARDS : Emulsion will not burn. They may spatter if the

temperature exceeds boiling point. Dried polymer films are capable of burning.

INITIALS :

MSDS CODE : 013SD88884

**REV.**: 0.0

DATE: 21.03.2007

**PAGE: 1/3** 

Item Numbers: 23882-1014, 23882-1015, 23882-1016, 23882-1019

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# SECTION VIE ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Use personal protective equipment & handling listed under sections VII & VIII

ENVIRONMENT PRECAUTIONS : Review fire and safety precautions before proceeding with clean up. Use appropriate personal protective equipment during clean up. Keep spectators away. Dike and contain spill with an inert [e.g. sand, earth, etc.] absorbent. Collect the absorbed material in plastic bag for final disposal. Transfer liquid to container for recovery or disposal. Emulsion can be coagulated by stepwise addition of lime and Ferric Chloride or Ferric Sulphate up to a water clear end point. Keep spill out of sewers and open bodies of water.

CLEANING METHODS: Wash floor with water. Contaminated diking material may be incinerated or land filled according to current local or central regulation.

### SECTION VIE HANDLING AND STORAGE STATES AND STORAGE

HANDLING PROCEDURE: Use appropriate personal protective equipment [PPE] during handling. Protect against physical damage. Observe good hygiene practices.

STORAGE REQUIREMENTS : Store at ambient temperatures. Keep away from freezing. Keep container tightly closed when not in use. Maintain good housekeeping.

HYGIENE MEASURES EYE PROTECTION HAND PROTECTION	after work. EYE PROTECTION : Use chemical splash proof safety goggles or equivalent.				
OTHERS ENGINEERING CONTROLS	: Eye wash facility and emerge : Not specific.	ncy shower.			
ENGINEERING CONTROLS	: Not specific.				
Fill Sections	X-PHYSICAL AND CHEM	ICALIPROPERTIES			
PHYSICAL STATE : Milky whit BOILING POINT (°C) : 100 °C DENSITY/ SPECIFIC GRAVIT VAPOUR PRESSURE AT 25 °C	pH:4.0-6.0 Y (WATER=1):1.03-1.07	ODOUR : Mild odour VISCOSITY @ 30 °C: SOLUBILITY 20 °C I makes emulsion	60 – 90 Ps		
STATISTICS SECTIO	NX-STABILITY AND REA	CIIMITY DATA			
CHEMICAL STABILITY INCOMPATIBILITY HAZARDOUS POLYMERISIO CONDITIONS TO AVIOD	: Stable under normal ambie : Mineral acids and high con N : Will not occur. : Not specific.				
SECTI	ON XI-TOXICOLOGICAL	INFORMATION			
Residual monomer content in th monomer vapours may be released	e product is not a problem i into workroom atmosphere wh	n normal handling and en emulsion is heat curec	storage. However, I or dried or spread.		
INITIALS :			PAGE : 2/3		
MSDS CODE : 013SD88884	<b>REV.</b> : 0.0	:	<b>DATE : 21.03.2007</b>		

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### SECTION XII- ECOLOGICAL INFORMATION

Do not allow to enter soil, waterways and open bodies of water.

STATISTICS SECTION XIII DISPOSAL INFORMATION STATISTICS SECTION STATISTICS

The contaminated/discarded material may be disposed off in accordance with current local or central regulation.

LIFT REAL PROPERTY AND A CONTRACT ON A CONTRACTION AND A CONTRACT ON A CONTRACT ON

UN NO. : -

IMDG CODE PAGE NO. : -

HAZARD CLASS : -

**PACKAGING GROUP: -**

The material is not considered as dangerous goods.

SECTION XV. REGULATORY INFORMATION

Not applicable

IN THE RESIDENCE ON A WIEMUSCEPTANEOUS INFORMATION AND A SUBJECT ON A SUBJECT OF A

DISCLAIMER : The data presented here is based on information we believe to be reliable but unknown risks may be present. We disclaim liability for damage or injury which results from the use of the above data and nothing contained therein shall constitute a guarantee or a warranty (including warranty of Merchantibility or fitness for a particular purpose) or representation (including freedom from Patentability) by us with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose as known to us. The final determination of the suitability of information, the manner of use of information or product and potential infringement of patents is the sole responsibility of the user.

### ABBREVIATIONS USED : NA - NOT APPLICABLE, NH - NON HAZARDOUS, CI - CONTENT INSIGNIFICANT.

ISSUED BY SAFETY DEPARTMENT	R M RAJE	TEL. NO. 2836 7085 EXT. 7277
INITIALS :		PAGE : 3/3
MSDS CODE : 013SD88884	<b>REV.</b> : 0.0	DATE: 21.03.2007

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# Material Safety Data Sheet

# U.S. Department of Labor

May be used to comply with

OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration

(Non-Mandatory Form) Form Approved OMB No. 1218-0072

SARGENT (WATER COLOR MAGIC) LIQUID	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Section I	

Manufacturer's Name	Sargent	Emergency Telephor	ne Number	
Art, Inc.	-	570-454-3596		
Address (Number, Street, City, State,	and ZIP	Telephone Number for	or Information	570-
Code)		454-3596		
		Date Prepared	7-26-2008	
100 E Diamond Avenue				
Hazleton PA 18201		Signature of Preparer	(optional)	

# Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical

Identity; Common Name(s))

ALL CP/AP PRODUCTS ARE CERTIFIED	BY A NATIONAL RECOGNIZED AUTHOR-
	DI ANATIONAL RECOONIZED AO THOR-

ITY ON TOXICOLOGY ASSOCIATED WITH A LEADING UNIVERSITY TO CONTAIN

NO KNOWN TOXIC MATERIALS IN SUFFI CIENT QUANTITIES TO BE

INJURIOUS TO THE HUMAN BODY EVEN IF INGESTED.

# CONFORMS TO ASTM-D 4236.

# Section III - Physical/Chemical Characteristics

Boiling Point NOT AP	PLICABLE	Specific Gravity (	H <sub>2</sub> O = 1)	N/A	
Vapor Pressure (mm Hg.)	N/A				Me
		Iting Point	N/A		
Vapor Density (AIR = 1)	N/A	Evaporation Rate	N/A		
		(Butyl Acetate = 1)			
Solubility in Water		Water Soluable - W	/ater Dispers	sible	
Appearance and Odor		Various Colors - Essentially Odorless			
Section IV - Fire and Explosion	n Hazard Dat	a			
Flash Point (Method Used)	N/A	Flammable Limits	LEL	UEL	
, , , , , , , , , , , , , , , , , , ,		NONE	NONE	NONE	
Extinguishing Media		CARBON DIOXIDE, WATER, FOAM			
Special Fire Fighting Procedures		SELF-CONTAINED BREATHING			
		APPARATUS			
Unusual Fire and Explosion Hazards		NONE			

Section V - Reactivity Data Stability	Unstable	Conditions to Avoid	
Stability	Unstable	Conditions to Avoid	
	Stable X	None Known	
Incompatibility (Materials to Avoid) Strong	Strong oxidizers	and acids	
Hazardous Decomposition or Byproducts			
Hazardous May Occur	Conditions to	Avoid	
Polymerization Will Not Occur X	None Known		
Section VI - Health Hazard Data			
Route(s) of Entry: Inhalation? Possible	Skin? N/A	Ingestion? Possible	
Health Hazards (Acute and Chronic)			
This product is certified to contain no	materials in suff	icient quantities to be	
toxic or injurious to humans or to cause	acute or chronic health problems.		
Carcinogenicity: NTP? None	IARC Monogra	aphs? N/A OSHA	
	Regulated?	No	
Signs and Symptoms of Exposure	None Known		
Medical Conditions			
Medical Conditions Generally Aggravated by Exposure	None Known		

# Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is	Sweep into container and dispose of		
Released or Spilled	according to local regulations.		
Waste Disposal Method			
-	In accordance with local regulations.		
Precautions to Be taken in Handling and			
Storing	Keep in cool, dry area.		
Other Precautions	None Known		

# Section VIII - Control Measures

Respiratory Proctection (Specify Type)		Not Required.	Not Required.		
Ventilation	Local Exhaust	Not Required	Special	None	
Mechanical (Gen		Not Required	Other	None	
Protective Glove	S	Not Required Eye Protection Not Required		n Not Required	
<b>Other Protective</b>	Clothing or Equipment	ent Not Required			
Work/Hygienic P	ractices	Clean, safe work practices			

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V				
FE9-12-2001 15:39			40305-7	<*×*
		~		0409-1001
Material Safety Data Sheet		U.S. Depa	artment of Labor	
May be used to comply with			Safety and Health Admini	istration
OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be	200	(Non-Mandal	•	
consulted for specific requirements.		Form Appro OMB No. 121		
IDENTITY (As I lead on I and And I letter	PEEDBALL Water-	Soluble Block	printing Ink (3400	1 to 3417, 3448, 3
	3548.3549: 360	<u>jų to 3617,36</u>	48,3649; 3700 to 2	111, 3140, 31431
Manufacturer's Name		Emergency Telo	phone Number	
			38-1475	· · · · · · · · · · · · · · · · · · ·
SPEEDBALL ART PRO			ber for Information 38 -1475	
2226 SPEEDBALL R	OAD —	Date Precared		
STATESVILLE, NC 2	8677	4/12	198	
		Signature of Pre		
		123	- and a company	
Section II — Hazardous Ingredient	a/Identity Informatio	n 		er Limes
Hazardous Components (Specific Chemical Id		OSHA PEL	ACGIH TLV Record	mmended % (optio
Approved for the AP Seal (N	on-toxic) by the	e Art & Creat	tive Materials Inst	itute, Inc. (AC
Product labeling conforms t	0 ASTM 04236.			
Note: This product has bee	n evaluated by a	Toxicologis	t only as per inte	nded usage.
······································	·			
				· · · · ·
	·			
ection III — Physical/Chemical Cha		Specific Gravity (H	-Q = 1)	
cor Pressure (mm Hg.)	212-369°F	Melting Point		1.2 to 1
	Unknown		· · · · · · · · · · · · · · · · · · ·	<32 <sup>0</sup> F.
cor Density (AIR = 1)	Unknown	Eveporation Rate (Butyl Acataba = 1)		less than
biky in Water Dilutable				
Thick paste with s	light odor	· · · ·	<u> </u>	· · · ·
tion IV Fire and Explosion Haz				
n Point (Method Used)		Flammable Limits	LEL	UEL
Not applicable (N/A)	L	N/A	N/A	<u> </u>
N/A	<u> </u>			·
wear self-contained brea		(pressure-de	mand, MSHA/NIOSH a	pproved or
equivalent) and full prot	tective gear.	• <u>.</u>	·	
Material can spatter abov	ve 212°F. Film	can burn.		······································
m Numbers: 40305-1003, 40305-1004, 40305-1005, 40305-1006, 40305-	007, 40305-2003, 40305-2004, 40305-200			•

Personal associative 305-5107, 40305-5003, 40305-5004, 40305-5006, 40305-5007, 40305-50113, 40305-51114, 40305-5115, 40305-5116, 40305-5117, 40305-5503, 40305-5504, 40305-5004, 40305-5006, 40305-5007, 40305-5007, 40305-5114, 40305-5115, 40305-5116, 40305-5117, 40305-5107, 40305-5107, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5114, 40305-5115, 40305-5117, 40305-5107, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5114, 40305-5115, 40305-5117, 40305-5107, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5007, 40305-5114, 40305-5115, 40305-5117, 40305-5107, 40305-5007, 40305, 40307, 40 6506, 40305-6507, 40305-7003, 40305-7004, 40305-7006, 40305-7007, 40305-8003, 40305-8004, 40305-8006, 40305-8006, 40305-8007, 40305-9303, 40305-9304, 40305-9306, 40305-9306, 40305-9307, 40307, 4

	- Reactivity I						
Sunary	Unstable		Conditions to Avoi	Onset of de	omposition	15 350°F.	
	Sabo	x		<u> </u>			•
ncompatibl	Uty (Materials to Av						
		<u> </u>					
	ecomposition or Byp		ldes of carb	on and nitrogen.			
actorization	May Occur		Conditions to Avoid	N/A			
	Will Not Occu	* Y	•		······································		
	- Health Haz			<u>.</u>			
CUUCIT VI		Inhulation?		Skun7		ingestion?	
	<u> </u>						
	is (Acute and Chron	<u>N/A</u>					<u> </u>
		• •	- · · ·			•	
		· ·					
reinagenicity		NTP7		LARC Monographs	7	OSHA Regul	etad7
	<u>N/A</u>						
	,						·
nis and Syn	npioms of Exposure	N/A					· · ·
					·		·
	availed by Exposure	<u> </u>					the second s
BOBOCY 104							
ergency and	First Aid Procedum		ct with eyes	may cause mild	irritation	: Flush wi	th water.
	First Aud Procedum	• Conta			irritation	: Flush wi	th water.
ction VII	- Precautions	Conta	Handling and L		irritation	: Flush wi	th water.
ction VII	- Precautions	for Safe	Handling and L	Jse			
ction VII a to Be Tab	- Precautions - Precautions Floor may be	for Safe I la Referce e slippe	Handling and L a or Soilled ary; use care	Jsæ e to avoid falli	ng. Transf	er to cont.	ainers for
ction VII a to Be Tab	- Precautions	for Safe I la Referce e slippe	Handling and L a or Soilled ary; use care	Jse	ng. Transf	er to cont.	ainers for
ction VII as to Be Tab	- Precautions	for Safe La Referse e slippe dispose	Handling and L d or Solled ery; use care 1. Keep out	Jsæ e to avoid falli t of municipal s	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII as to Be Tab	- Precautions	for Safe La Referse e slippe dispose	Handling and L d or Solled ery; use care 1. Keep out	Jsæ e to avoid falli	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII 23 10 Be Tab 29 Discoval	- Precautions Floor may be recovery or Method Incinerate i federal regi	for Safe La Referce e slippe dispose at a per ulations	Handling and L d or Solled ery; Use care il. Keep out mitted faci	Jsæ e to avoid falli t of municipal s	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII 23 10 Be Tab 29 Discoval	- Precautions - Precautions Floor may be recovery or Mechod Incinerate federal regi Taken in Hardio	for Safe U B Referse e slippe dispose at a per ulations	Handling and L d or Solled ery; use care 1. Keep out mitted faci	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII 23 10 Be Tab 29 Discoval	- Precautions - Precautions Floor may be recovery or Mechod Incinerate federal regi Taken in Hardio	for Safe U B Referse e slippe dispose at a per ulations	Handling and L d or Solled ery; use care 1. Keep out mitted faci	Jsæ e to avoid falli t of municipal s	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII 23 10 Be Tai 25 Discoval autions to B	- Precautions - Precautions Floor may be recovery or Method Incinerate i federal real Keep from fr	for Safe U B Referse e slippe dispose at a per ulations	Handling and L d or Solled ery; use care 1. Keep out mitted faci	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c	Fer to cont.	ainers for of water.
ction VII as to Be Tab to Discoval autions to B	- Precautions - Precautions Floor may be recovery or Method Incinerate federal require Keep from fr	for Safe U B Referse e slippe dispose at a per ulations	Handling and L d or Solled ery; use care 1. Keep out mitted faci	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c	Fer to cont.	ainers for of water.
etion VII 25 12 Be Tau 25 Discosal autions 12 B 27 Procaution	Precautions — Precautions Floor may be recovery or Mechod Incinerate i federal regil Keep from fr	for Safe La Referse e slippe dispose at a per ulations g and Storin reezing	Handling and L d or Solled ery; Use care il. Keep out mitted faci	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c	Fer to cont.	ainers for of water.
etion VII par to Be Tau autions to B r Precaution thon VIII -	- Precautions - Precautions Floor may be recovery or Mechod Incinerate i federal regil Taken in Handlin Keep from fr Me N/A - Control Meas	for Safe U Is Referse e slippe dispose at a per ulations g and Storin reezing	Handling and L d or Solled ery; use care 1. Keep out mitted faci	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c	Fer to cont.	ainers for of water.
etion VII as to Be Tab be Discoul autions to B r Precaution thon VIII - inatory Prote None rec	- Precautions - Precautions Floor may be recovery or Method Incinerate federal redu taken in Hardin Keep from fr N/A - Control Meas ction (Spectly Type) ouired with	for Safe Us Reference e slippe dispose at a per ulations g and Spoin reezing	Handling and L d or Spilled ery; Use care il. Keep out mitted faci - product ma	Jsæ e to avoid falli t of municipal s lity according t av coaqulate.	ng. Transf ewers and c o current	pen bodies	ainers for of water.
etion VII as to Be Tab be Discoul autions to B r Precaution thon VIII - inatory Prote None rec	- Precautions - Precautions Floor may be recovery or Method Incinerate i federal redi Faten in Handling Keep from fr N/A - Control Meas ction (Specify Type) duired with Local Fatence	for Safe La Reference e slippe dispose at a per ulations g and Storin reezing sures adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma - product ma	Jsæ e to avoid falli t of municipal s lity according t	ng. Transf ewers and c o current	pen bodies	ainers for of water.
etion VII as to Be Tab be Discoul autions to B r Precaution thon VIII - inatory Prote None rec	- Precautions - Precautions Floor may be recovery or Method Incinerate i federal redi Faten in Handling Keep from fr N/A - Control Meas ction (Specify Type) duired with Local Fatence	for Safe La Palesce e slippe dispose at a per ulations g and Storin reezing sures adequat Adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma - product ma	Jsa e to avoid falli t of municipal s lity according t ay coaculate.	ng. Transf ewers and c o current	pen bodies	ainers for of water.
ction VII a to Be Tab b Discoul autions to B r Precaution thon VIII rationy Prote None reg	- Precautions - Precautions Floor may be recovery or Method Incinerate in federal redi Taken in Handling Keep from fr N/A - Control Meas ction (Specify Type) ou ired with Local Exhaust	for Safe La Palesce e slippe dispose at a per ulations g and Storin reezing sures adequat Adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma - product ma	<pre>Jsm e to avoid falli t of municipal s lity according t ay coaculate. n &amp; normal operation Specal Curor</pre>	ng. Transf ewers and c o current	pen bodies	ainers for of water.
tion VII Discose Discose Precaution tion VIII - inatory Prote None rec 2500	- Precautions - Precautions Floor may be recovery or Method Incinerate i federal redi taken in Handling Keep from fr - Control Measured Duired with Local Exhaust Mechanical (General Impervious	for Safe U a Reference e slippe dispose at a per ulations g and Storin reezing sures adequat Adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma - product ma	Dist a to avoid falli t of municipal s lity according t ay coaculate. n & normal opera Special Other Eye Protection	ng. Transf ewers and c o current	Ter to cont. open bodies local, stat tions.	ainers for of water.
Ction VII parts Be Tab Disposal autions to B r Precaution thon VIII - inatory Prote None rec lation	- Precautions - Precautions ten in C236 Materia Floor may be recovery or Method Incinerate in federal redu Taken in Hardin Keep from fi N/A - Control Meas ction (Specty Type) ouired with Local Exhaust Mechanical (General	for Safe U a Reference e slippe dispose at a per ulations g and Storin reezing sures adequat Adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma e ventilatio	Dist a to avoid falli t of municipal s lity according t ay coaculate. n & normal opera Special Other Eye Protection	ng. Transf ewers and c o current	Ter to cont. open bodies local, stat tions.	ainers for of water.
Ction VII State Be Tables Discosal autions to B Procession thon VIII - ratory Prote None reg ation	- Precautions - Precautions Floor may be recovery or Method Incinerate federal real Faten in Handlin Keep from fr N/A - Control Meas ction (Specify Type) ouired with Local Exhaust Mechanical (General Impervious Soching or Equipment	for Safe U is Release e slippe dispose at a per ulations g and Sconn reezing sures adequat Adequat	Handling and L d or Solled ery; Use care il. Keep out mitted faci - product ma - product ma e ventilatio	Dist a to avoid falli t of municipal s lity according t ay coaculate. n & normal opera Special Other Eye Protection	ng. Transf ewers and c o current ting condi fety glass	Ter to cont. open bodies local, stat tions.	ainers for of water.

4, 40305-3045, 40305-3046, 40305-3047, 40305-4003, 40305-4004, 40305-4005, 40305-4006, 40305-4007, 40305-4053, 40305-4054, 40305-4055, 40305-4056, 40305-4057, 40305-4503, 40305-4504, 40305-4505, 40305-4506, 40305-507, 40305-5003, 40305-5004, 40305-5005, 40305-5006, 40305-5007, 40305-5113, 40305-5114, 40305-5115, 40305-5117, 40305-5107, 40305-5603, 40305-5005, 40305-5005, 40305-5007, 40305-5007, 40305-5113, 40305-5114, 40305-5115, 40305-5117, 40305-5107, 40305-5007, 40305, 40307, 4 6506, 40305-6507, 40305-7003, 40305-7004, 40305-7005, 40305-7006, 40305-7007, 40305-8003, 40305-8004, 40305-8006, 40305-8006, 40305-8007, 40305-9304, 40305-9304, 40305-9306, 40306, 40006

MATERIAL SAFETY DATA S This Material Safety Data Sheet of				CODE: M/L 136
the U.S. OSHA Hazard Communi Standard, 29 CFR 1910.1200 PRODUCT: WORTHINGTON STERL		DLUBLE FLUX		SINCE 1955
NFPA/HMIS HAZARD CODES:	HEALTH: 1/1	FIRE: 0/0	REACTIVITY: 0/0	SPECIAL: N/A
0 = Minimal 1 = Slight	2 = Moderate 3 =	Serious 4 = S	Severe	
	SECT	ION I IDENTIFICAT	ION	
10 W	/ORTHINGTON 690 Lowery Street /inston-Salem, NC 2710 36-777-8600	1	ISSUE DATE: January	23, 2013
	SECTION II C	OMPOSITION INFO	ORMATION	
INGREDIENT Hydrochloric Acid Zinc Chloride	<u>CAS NO.</u> 7647-01-0 7646-85-7	<u>US OSHA P</u> 5PPM 1PPM	<u>EL %</u> 3-6 1-3	
	SECTIO	N III HEALTH HAZ	ARDS	
SKIN: Wash ACUTE INHALATION: Remo	ve to fresh air or adminis vater or milk. Obtain imn Fume inh RE: Salivation anemia, a CALLY SURE: Any weak	Firritation develops, ster oxygen. Obtain nediate medical atte alation, ingestion, sl n, coughing, choking and stiff joints.	obtain medical attention. immediate medical attentio ntion.	oss, brittle bones,
	SECTION IV FIRE	AND EXPLOSION	HAZARD DATA	
FLASH POINT: FLAMMABLE LIMITS: EXTINGUISHING MEDIA: AUTO IGNITIOIN TEMPERATUF SPECIAL FIRE FIGHTING PROO UNUSUAL FIRE & EXPLOSION	RE: CEDURES: No	A t needed None	S	
	SECTION V ACC	IDENTAL RELEAS	E MEASURES	
STEPS TO BE TAKEN IN CASE Clean up paste and dilute/flush re				
	SECTION VI	HANDLING AND S	TORAGE	
STORAGE REQUIREMENT: HANDLING PRECAUTIONS:	thoroughly after use.		way from heat. Do not store s and exposure to skin and	
Rev 000				

Rev 000 Date: 1/23/13 **M/L 136** 

#### SECTION VII CONTROL MEASURES

RESPIRATORY PROTECTION (TYPE): MECHANICAL (GENERAL): EYE PROTECTION: PROTECTIVE GLOVES: OTHER PROTECTIVE CLOTHING OR EQUIPMENT: VENTILATION: LOCAL EXHAUST: NIOSH approved respirator Yes Safety glasses/goggles Recommended Optional to user's preference. Yes Yes

#### SECTION VIII PHYSICAL AND CHEMICAL CHARACTERISTICS

 BOILING POINT:
 104°C

 VAPOR PRESSURE (mm Hg):
 N/A

 VAPOR DENSITY (AIR=1):
 N/A

 MELTING POINT:
 0°C

 REACTIVITY IN WATER:
 None

SPECIFIC GRAVITY (WATER=1): PERCENT VOLATILE BY VOLUME: EVAPORATION RATE (BUTYL ACETATE=1): SOLUBILITY IN WATER: APPEARANCE AND ODOR: .97 64% 0.6 Moderate White, odorless paste

#### SECTION IX STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID): INCOMPATIBILITY:

HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS POLYMERIZATION: (CONDITIONS TO AVOID): Product is stable Metals Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials. HCI, zinc chloride, zinc oxide, ammonium fume Will not occur Excessive heat or cold

#### SECTION X TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. PROPER SHIPPING NAME: WASTE DISPOSAL METHOD: Non-hazardous Dispose of in accordance with EPA regulations

#### SECTION XI OTHER INFORMATION

#### VOC CONTENT: None

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. WORTHINGTON provides no warranties, either express or implied, and assumes no responsibilities for the accuracy or completeness of the data contained in this document. The data in this Material Safety Data Sheet relates only to this product and does not relate to use in combination with any other material or in any process.







# Safety Data Sheet

	Manufacturer: WD-40 Company
Product Name: WD-40 Multi-Use Product Aerosol	Address: 1061 Cudahy Place (92110)
NOT FOR SALE IN CALIFORNIA	P.O. Box 80607
	San Diego, California, USA
Product Use: Lubricant, Penetrant, Drives Out	92138 -0607
Moisture, Removes and Protects Surfaces From	Telephone:
Corrosion	Emergency only: 1-888-324-7596 (PROSAR)
	Information: 1-888-324-7596
Restrictions on Use: None identified	Chemical Spills: 1-800-424-9300 (Chemtrec)
	1-703-527-3887 (International Calls)
SDS Date Of Preparation: 07/20/2014	

#### 2 – Hazards Identification

Hazcom 2012/GHS Classification: Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas Aspiration Toxicity Category 1

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.



Dispose of contents and container in accordance with local and national regulations.

#### **3 - Composition/Information on Ingredients**

	Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
Aliphatic	: Hydrocarbon	64742-47-8	45-50	Flammable Liquid Category 3

			Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9	<25	Not Hazardous
	64742-65-0		
	64742-53-6		
	64742-54-7		
	64742-71-8		
LVP Aliphatic Hydrocarbon	64742-47-8	12-18	Aspiration Toxicity Category 1
Carbon Dioxide	124-38-9	2-3	Simple Asphyxiant
			Gas Under Pressure,
			Compressed Gas
Non-Hazardous Ingredients	Mixture	<10	Not Hazardous

Note: The exact percentages are a trade secret.

#### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure**: May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

#### 5 – Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. Specific Hazards Arising from the Chemical: Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters**: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

#### 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

#### 8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA, 10 mg/m3 STEL ACGIH TLV 5 mg/m3 TWA OSHA PEL
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)
Non-Hazardous Ingredients	None Established

# The Following Controls are Recommended for Normal Consumer Use of this Product Appropriate Engineering Controls: Use in a well-ventilated area.

#### Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your face.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

#### For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

#### Personal Protection:

**Eye Protection:** Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

Appearance:	Light amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8%
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Closed Cup (concentrate)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas)	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	412 grams/liter (49.5%)	Pour Point:	-63°C (-81.4°F ) ASTM D-97

#### 9 – Physical and Chemical Properties

#### 10 – Stability and Reactivity

**Reactivity:** Not reactive under normal conditions **Chemical Stability:** Stable **Possibility of Hazardous Reactions:** May react with strong oxidizers generating heat. **Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

#### 11 – Toxicological Information

#### Symptoms of Overexposure:

**Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

**Eye Contact:** Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause

chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

**Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

**Reproductive Toxicity**: None of the components is considered a reproductive hazard.

#### Numerical Measures of Toxicity:

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

#### 12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available, however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Component are readily biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients. **Mobility in Soil:** No data available

Other Adverse Effects: None known

#### 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

#### 14 – Transportation Information\_

DOT Surface Shipping Description:

UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark) IMDG Shipping Description: Un1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

#### 15 – Regulatory Information

#### U.S. Federal Regulations:

**CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many

states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

**Hazard Category For Section 311/312:** Acute Health, Fire Hazard, Sudden Release of Pressure **Section 313 Toxic Chemicals**: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status**: All of the components of this product are listed on the TSCA inventory.

**VOC Regulations**: This product complies with the consumer product VOC limits of the US EPA and states adopting the OTC VOC rules but does not comply with CARB.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.

**Canadian Environmental Protection Act**: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

**Canadian WHMIS Classification**: Class A (Compressed gas), Class B-5 (Flammable Aerosol) This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16 – Other Information:

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

Revision Date: July 20, 2014

Supersedes: May 23, 2014

Revision Summary: Convert to Hazcom 2012. Changes in all sections.

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

APPROVED By: I. Kowalski

Regulatory Affairs Dept.

5049000/No.0015205







# **Safety Data Sheet**

#### 1 - Chemical Product and Company Identification

Trade Name: WD-40 Multi-Use Product Bulk Liquid NOT FOR SALE IN CALIFORNIA	Manufacturer: WD-40 Company Address: 1061 Cudahy Place (92110) P.O. Box 80607
Product Use: Lubricant, Penetrant, Drives Out	San Diego, California, USA
Moisture, Removes and Protects Surfaces From Corrosion	92138 –0607 Telephone:
Restrictions on Use: None identified	Emergency only:         1-888-324-7596 (PROSAR)           Information:         1-888-324-7596
MSDS Date Of Preparation: 8/25/15	Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)

#### 2 – Hazards Identification

Hazcom 2012/GHS Classification: Flammable Liquid Category 3 Aspiration Toxicity Category 1

Note: The 1 gallon size product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to larger containers sold for industrial/professional use.

#### Label Elements:



#### DANGER!

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

#### Prevention

Keep away from heat, sparks, open flames, hot surfaces - No smoking. Keep container tightly closed. Ground and bond containers and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear eye protection. Response IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. In case of fire: Use water fog, dry chemical, carbon dioxide or foam to extinguish. Storage Store locked up. Store in a well-ventilated place. Keep cool. Disposal

Dispose of contents and container in accordance with local and national regulations.

#### 3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	GHS Classification
Aliphatic Hydrocarbon	64742-47-8	45-50	Flammable Liquid Category 3
			Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9	<35	Not Hazardous
	64742-65-0		
	64742-53-6		
	64742-54-7		
	64742-71-8		
LVP Aliphatic Hydrocarbon	64742-47-8	12-18	Aspiration Toxicity Category 1

Note: The specific chemical identity and exact percentages are a trade secret.

#### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention. **Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure**: May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

#### 5 – Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. Specific Hazards Arising from the Chemical: Combustible liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters**: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.

#### 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

**Methods and Materials for Containment/Cleanup:** Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class II Liquid.

Chemical	Occupational Exposure Limits	
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)	
Petroleum Base Oil	5 mg/m3 (inhalable) TWA ACGIH TLV	

#### 8 – Exposure Controls/Personal Protection

	5 mg/m3 TWA OSHA PEL
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)

# The Following Controls are Recommended for Normal Consumer Use of this Product Engineering Controls: Use in a well-ventilated area.

#### **Personal Protection:**

Eye Protection: Avoid eye contact. Safety glasses or goggles recommended.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

**Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:** 

**Eye Protection:** Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

Appearance:	Light amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8.0%
Odor:	Mild petroleum odor	Vapor Pressure:	1 psi @38°C (100°F) ASTM D323
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Open Cup	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas)	Not Applicable	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	412 grams/liter (49.5%)	Pour Point:	-63°C (-81.4°F ) ASTM D-97

#### 9 – Physical and Chemical Properties

#### 10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

#### 11 – Toxicological Information

Symptoms of Overexposure:

**Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

**Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

**Reproductive Toxicity**: None of the components is considered a reproductive hazard.

#### Numerical Measures of Toxicity:

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

#### 12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available, however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Component are readily biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients. **Mobility in Soil:** No data available

Other Adverse Effects: None known

#### 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

#### 14 – Transportation Information\_

DOT Surface Shipping Description: Excepted from Hazmat (49CFR 173.150 (F)) in non-bulk packagings. Bulk Packagings: UN1268, Petroleum Distillates, n.o.s., Combustible Liquid, PG III IMDG Shipping Description: UN1268, Petroleum Distillates, n.o.s. 3, PG III ICAO Shipping Description: UN1268, Petroleum Distillates, n.o.s. 3, PG III NOTE: WD-40 does not test containers to assure that they meet the pressure differential and other requirements for transport by air. We do not recommend that our products be transported by air.

#### 15 – Regulatory Information

#### U.S. Federal Regulations:

**CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

#### SARA TITLE III:

Hazard Category For Section 311/312: Acute Health, Fire Hazard

**Section 313 Toxic Chemicals**: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status**: All of the components of this product are listed on the TSCA inventory

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**: This product does not contain chemicals regulated under California Proposition 65.

**VOC Regulations**: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

**Canadian Environmental Protection Act**: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification. **Canadian WHMIS Classification**: Class B-3 (Combustible Liquid) This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

#### 16 – Other Information:

HMIS Hazard Rating: Health – 1 (slight hazard), Fire Hazard – 2 (moderate hazard), Reactivity – 0 (minimal hazard)

Revision Date: August 2015

Supersedes: July 2014

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed by: I. Kowalski

Regulatory Affairs Department

3069000/No.0015106

IPS								Date Revised	MAR 2008
WELD-ON		MATERI	AL SAF	ETY DA	TA SHE	ET		Supersedes:	IUN 2007
	furnished solely for the purpo	•		•				, ,	•
	customers receiving this Mat	-					ards, if any, of	the product inv	olved.
In the interest of salety, yo						·L.			
MANUFACTURER'S NAM		•			Transportat	ion Emergen			
IPS Corporation					-	: (800) 424-93			
ADDRESS					Medical Em	. ,			
17109 S. Main St., P.O. Bo	ox 379, Gardena, CA. 90248				3 E COMPA	NY (24 Hour	No.) (800) 451	-8346	
	· · · · · ·				•	310) 898-3300	)		
CHEMICAL NAME and FA						O Drimor for D		tia Dina	
Mixture of Organic Solvent Adhesive Primer for Plastic				FORMULA: F			VC/CPVC Plas	stic Pipe	
	SE	CTION I	I - HA7		<b>IS INGI</b>	REDIEN	ITS		
None of the ingredients be									
carcinogens by IARC, NTF		CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL		
Methyl Ethyl Ketone (MEK		78-93-3	15 - 25*	200 PPM	300 PPM	200 PPM	300 PPM		
Tetrahydrofuran (THF)**		109-99-9	15 - 25	50 PPM# Skin	100 PPM	200 PPM	250 PPM		
Acetone		67-64-1	25 - 40	500 PPM	750 PPM	750 PPM	1000 PPM		
Cyclohexanone		108-94-1	10 - 30	20 PPM Skin		50 PPM			
All of the constituents of W	/eld-On adhesive products ar	e listed on the T	SCA invento	ory of chemical	substances m	aintained by t	he US EPA, or	are exempt fro	m that listing.
and Community Right-to-	blier Notification: This product Know Act of 1986 and of 40C Dable Exposure Limit (AEL) of	FR372. This inf	ormation mu	st be included i	n all MSDS's	that are copied	d and distribute	ed for this mate	rial.
	port from the National Toxico								
tumors in animals. In the s	study the rats and mice were	exposed to THF	vapor levels	s up to 1800 PP	M for two yea	ars (their lifetin	ne), 6 hours/da	y, 5 days/week	. Test
	of liver tumors in female mice		ors in male ra	ats. No evidend	ce of tumors w	as seen in fer	male rats and n	nale mice. The	re is no
· · ·	an exposure with cancer in hu MATION / CONTAINERS LAI				SPEC		DESIGNATIO	NS	
DOT Shipping Name:	Flammable Liquid N.O.S.				0. 20	HMIS	NFPA	HAZARD R	ATING
	(Methyl Ethyl Ketone, Aceto	one)		HEALTH:		2	2	0 - MININ	/IAL
DOT Hazard Class:	3			FLAMMABILI		3	3	1 - SLIGI	HT
Identification Number:	UN 1993			REACTIVITY		0	1	2 - MOD	
Packaging Group: Label Required:	II Flammable Liquid			PROTECTIV EQUIPMENT		B - H		3 - SERI 4 - SEVE	
Laber nequired.	i iaminable Liquid				•	D-11		4-3275	
SHIPPING INFORMATIO	N FOR CONTAINERS LESS	THAN ONE LIT	ER	B = Eye, Han	nd/Skin (for no	rmal solvent-v	velding, small s	spill, clean-up	activities)
DOT Shipping Name:	Consumer Commodity					iratory Protect	ion and Impern	neable Apron (s	splash/
DOT Hazard Class:	ORM-D			immersio	,				
		SECTIO	)N III -	PHYSIC	AL DA	ΓΑ			
APPEARANCE		ODOR				BOILING PO	DINT (°F/℃)		
Clear or Purple, thin liquid		Ethereal				133°F (57℃	) Based on firs	t boiling compo	nent:
						Acetone			
SPECIFIC GRAVITY @ 7: Typical 0.845 ± 0.040	3°F ± 3.6° (23°C ± 2°)	190 mm Hg. b	•	•		100%	OLATILE BY	VOLUME (%)	
		component, A				10078			
VAPOR DENSITY (Air = 1	1)	EVAPORATIO	-	. ,		SOLUBILIT	Y IN WATER		
2.0		6-11				Completely s	soluble in water	r.	
VOO CTATEMENT. Mau					To at us atle a d				
VUGSTATEMENT: MAXI	mum VOC emissions when a SECTI	ON IV - F						ТΔ	
FLASH POINT					FLAMMABLI				UEL
-6°F (-21℃) T.C.C. Based	I on Acetone				PERCENT B			2.1	13.0
FIRE EXTINGUISHING M									10.0
	n bicarbonate dry chemical, a ed personnel can extinguish			dry chemical, ca	arbon dioxide	or foam exting	guisher can be	used for small	fires.
SPECIAL FIRE FIGHTING		-							
	Stay upwind. Close quarters	s or confined sp	aces require	self-contained	breathing app	aratus, positiv	e pressure ma	sk or airline ma	lsk.
	ed personnel can extinguish								
	into sewers or storm drains.								
UNUSUAL FIRE AND EXI	PLOSION HAZARDS								
	v flash point and high volatility	/. Vapors are he	avier than ai	r and may trave	el to source(s)	of ignition at	or near ground	or lower level(	s) and flash
back.				,	(-)	<b>č</b>	0	- (	
			Sheet	1 of 2					<i>ff-</i> d

SECTION V - HEALTH HAZARD DATA	
PRIMARY ROUTES	
OF ENTRY: <u>X</u> Inhalation <u>X</u> Skin Contact Eye Contact Ingestion	
EFFECT OF OVEREXPOSURE	
ACUTE:	
Inhalation:         Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.           Skin Contact:         Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.	
Skin Absorption: Prolonged or widespread exposure may result in the absorption of harmful amounts of material.	
Eve Contact: Overexposure may result in severe eye injury with corneal or conjuctival inflammation on contact with the liquid. Vapors slightly uncon	fortable.
Ingestion:         Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.           CHRONIC:         Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 d	avs
Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.	<i>x</i> y5.
REPRODUCTIVE EFFECTS         TERATOGENICITY         MUTAGENICITY         EMBRYOTOXICITY         SENSITIZATION TO PRODUCT         SYNERGISTIC PRODUCTS           N. AP.         N. AV.	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased	
susceptibility to the toxicity of excessive exposures.	
EMERGENCY AND FIRST AID PROCEDURES	
Inhalation: If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Ca	.11
physician.         Eve Contact:       Flush eyes with plenty of water for 15 minutes and call a physician.	
Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get	
medical attention.	
Ingestion: Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.	
SECTION VI - REACTIVITY	
STABILITY UNSTABLE CONDITIONS TO AVOID	
STABLE         X         Keep away from heat, sparks, open flame and other sources of ignition.	
(MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. HAZARDOUS DECOMPOSITION PRODUCTS	
When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.	
HAZARDOUS MAY OCCUR CONDITIONS TO AVOID	
POLYMERIZATION WILL NOT OCCUR X Keep away from heat, sparks, open flame and other sources of ignition.	
SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.	
WASTE DISPOSAL METHOD	
Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing. Hazardous Waste Code (CA): 214.	
drains. Empty containers should be air dhed before disposing. Hazardous Waste Code (CA). 214.	
SECTION VIII - SPECIAL PROTECTION INFORMATION	
RESPIRATORY PROTECTION (Specify type)	
Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH	l
approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single	
short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.	
VENTILATION	
Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section Use only explosion proof ventilation equipment.	Ι.
ose only explosion proof ventilation equipment.	
PROTECTIVE GLOVES PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile EYE PROTECTION Splashproof chemical go	ggles,
surgical gloves or solvent resistant barrier creme should provide adequate protection when normal solvent-ceme face shield, safety glasses (spectacles) with bro	W
welding practices and procedures are used for solvent welding of plastic sheet/pipe joints. guards and side shields, etc. as appropriate for exposure.	
OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES	
Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.	
SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in the shade between 40°F - 110°F (5°C - 43.7°C). Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of va	por
Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.	501.
OTHER PRECAUTIONS	
Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All material handling equipment should be	
electrically grounded.	
The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.	

05/02/2003 03:57 16304341356		PHASEIII			PAGE 02
MATERIAL SAFETY	DATA SI	HEET / FI	CHE SIGN	ALÉTIC	JUE
SECTION I - MATERIAL IDENTIFICATIO	N AND USE /	IDENTIFICATIO	ON DE LA MATI	ERE ET US	SAGE
MATERIAL NAME / IDENTIFIER - NOM / ID (5850-XX) WELDE	•	N DE LA MAT		3819-	00 80 1003 1004 1005 1105
Read 05-03-03					
Frank T. Ross & Sons Limite	SUPPLIER'S NALF INON	Same	3		
STREET ADDRESS ADRESSE 6550 Lawrence Avenue East	STREET ADDRESS ADRESS				
Scarborough, Ontario		CITY/VELE	· .:::	PROVINCE	
POSTAL CODE CODE POSTAL EMERGENCY PHONE NO.IN" DE		POSTAL CODE/CODE P	DETAL	EMERGENCY PHON	NE HO IN DE TELEPHINE OURDENCE
CHELINCAL NAME DENOMINATION CHEMOLE COMPOUNDED	CHEMICAL PALLY IFA		CHENICAL FORMULA/FORM	ULE CHIMQUE	
POLYVINYL ACETATE EMULSION TRADE NAME AND SYNCHYMS/APPELATION COMMERCIALE ET SYNCHYMES	ORGANIC P	POIDS HOLECULAIRE	N/AP MATERIAL USE/UTILISATION ADHESIVI	DE LA MATIÈRE	
Weldbond SECTION II — HAZARDOUS INGREDIEN		in a second s			
	APPROXIMATE CONCENTRATION % CONCENTRATION % CONCENTRATION APPROXIMATIVE (%)	CAR, NA OR UN, NUMBERS NUMERO CAR NUMERO CAR	LDAINGEA SPECIFY SPECIES & IN DL., INFECISER & ST ET LA VORE PARAMENTE	OUTE)	A MAHERIE LC., (RPECIE'S AND ROUTE) CL., (RPECIE'S AND ROUTE) CL., (RPECIES L'SSPECE E' LA VOE (2 ADMINSTRATICH)
NONE – NOT A W.H.M.I.S. CONTROL CLASSIFIED AS A NON HAZARDOUS P	•	т _			
ι.					•
			••		
LONG AND LOGO DATA ARE EXPRESSED IN MC/KG AND PPH RESPECTIVELY FOR ROUTE AND INHALATION FOR 4 HOURS, UNLESS OTHERWISE SPECIFIED.	RATS VIA THE ORAL	LES DONNÉES DLEO ORALE ET INHALATK	ET CL50 SONT EXPRIMÉE ON POUR 4 HEURES POUR	B EN MO/KG ET P	PPU RESPECTIVEMENT VIA VOIE ECIFIÉEB ALLEURS
SECTION III PHYSICAL DATA FOR MA	TERIAL / CAR			DE LA MA	ATIÈRE
		MILKY WHIT	E LIQUID WIT		
	.095	VAPOLIE PRESSURE (MM) TENSION DE VAPEUR (M	<u>N/AV</u>	LESS I	TAN i, WATER
EVAPORATION RATE: TAUX DEVAPORATION SLOW	ABOUT 100	FREEZING POINT (C)/ POINT DE CONGELATION	N/AV	DILUTA	
x volate (provide) x volater (provide) tem Numbers: 23819-0080, 234 €100€ 288194 04, 23819-1005, 23819-110€5.0		<u>+</u>		CORPTICIENT OF CORPTICIENT OF N/	AV Page 1 of 5
					<u></u>

### MSDS for #23819 - WELDBOND ADHESIVE

SECTION IV FIRE AND EVELODION		PHASEIII	PAGE 03
	HAZARD OF N	ATERIAL / RISQUES D'INCENDI	E ET D'EXPLOSION DU MATÉRIEL
FLAMMABILITY/INFLAMMABILITE YES/OU A HO/NON			
VEANS OF EXTINCTION/MOYENS DEXTINCTION		· · · · · · · · · · · · · · · · · · ·	
		<u> </u>	
N/AP			
REEP CONTAINERS COOL WITH WAT	ER SPRAY.	WEAR SELF-CONTAINED BR	EATHING APPARATUS AND
FULL PROTECTIVE GEAR.			
MATERIAL CAN SPLATTER ABOVE 1			
LASHPOHT ('C) AND METHOD/POINT D'ÉCLAR ('C) ET METHODE DE T N/AP		ER EXPLOSION LIMIT IN BY VOLUME! L MAXIMAL DINFLAMMABILITE (N PAR VOLUME! N/AP	LOWER EXPLOSION LAMT (%, BY VOLUME)/ SEUEL MINIMAL D'INFLAMMABILITE (%, PAR VOLUME) N/AP
TORONTION TEMPERATURE L'OUTEMPERATURE D'AUTO NELAMMAT	וסיז אסו	· · · · · · · · · · · · · · · · · · ·	HAZARDOUS COMBUSTION PRODUCTS / PRODUITS DE COMBUSTION DANGEREUX
	OSION DATA/D	XONNÉES SUR L'EXPLOSIBILITÉ	
NSITVITY TO MECHANICAL IMPACT/BENSIBILITE AUX CHOCS NO		BENSITIVITY TO STATIC DISCHARGE/SENSI NO	NLITE AUX DECHARGES ELECTROSTATIOUES
SECTION V - REACTIVITY DATA / DO	ONNÉES SUR L	A RÉACTIVITÉ	
BO, WHICH ONES 7/SI OUI, AVEC LEGOUELLES ?			
BO, WHICH ONES 7/SI OUI, AVEC LEGOUELLES?	LLES CONORTIONS 7		
50, WHICH ONES 7/51 OUI, AVEC LESQUELLES?	LLES CONORTIONS 7		
BO, WHICH ONES 7/SI OUI, AVEC LEGOUELLES?	LLES CONDITIONS? TON DANGEREUX	ATERIAL / PROPRIÉTÉS TOXIC	OLOGIQUES DE LA MATIÈRE
50, WHICH ONES 7/51 OUI, AVEC LEGOUELLES? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP ZARDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO NUTE OF ENTRY/VOEE D'ADMINISTRATION SKAN CONTACT/CONTACT AVEC LA PEAU SKAN CONTACT/CONTACT AVEC LA PEAU	PERTIES OF M. SIGN ASSORPTION/AS MAILATION CHRONIC		OLOGIQUES DE LA MATIÈRE contact/contact oculare estion
50, WHICH ONES 7/SI OUI, AVEC LEGOUELLES ? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP ZUPDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO UTE OF ENTRY/VOE D'ADMINISTRATION ( SKAN CONTACT/CONTACT AVEC LA PEAU HALATION ACUTE/HRULATION AQUE	PERTIES OF M. SIGN ASSORPTION/AS MAILATION CHRONIC		CONTACT/CONTACT OCULAIRE
50, WHICH ONES ?/SI OUI, AVEC LEGOUELLES? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP ZARDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO UTE OF ENTRY/VOEE D'ADMINISTRATION SKAN CONTACT/CONTACT AVEC LA PEAU SKAN CONTACT/CONTACT AVEC LA PEAU	PERTIES OF M. SIGN ASSORPTION/AS MAILATION CHRONIC		CONTACT/CONTACT OCULAIRE
50, WHICH ONES 7/51 OUI, AVEC LEGOUELLES? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP ZARDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO NUTE OF ENTRY/VOEE D'ADMINISTRATION SKAN CONTACT/CONTACT AVEC LA PEAU SKAN CONTACT/CONTACT AVEC LA PEAU	PERTIES OF M. SIGN ASSORPTION/AS MAILATION CHRONIC		CONTACT/CONTACT OCULAIRE
50, WHICH ONES ?/SI OUI, AVEC LEGOUELLES? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP ZARDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO UTE OF ENTRY/VOEE D'ADMINISTRATION SKAN CONTACT/CONTACT AVEC LA PEAU SKAN CONTACT/CONTACT AVEC LA PEAU	PERTIES OF M. SIGN ASSORPTION/AS MAILATION CHRONIC		CONTACT/CONTACT OCULAIRE
50, WHACH ONES 7/SI OUI, AVEC LEGOUELLEG?	LLES CONDITIONS 7 TON DANGEREUX PERTIES OF M. SIGN ABSORPTION/AB I INVILITION CHRONIC N AIGUE & LA MATTERE		CONTACT/CONTACT OCULAIRE
BO, WHICH ONES 7/SI OUI, AVEC LEGOUELLES? ACTIVITY AND UNDER WHAT CONDITIONS/REACTIVITE - DANS QUE N/AP SZURDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSIT N/AP SECTION VI TOXICOLOGICAL PRO X/TE OF ENTRY/VOEE D'ADMINISTRATION ( ] SKIN CONTACT/CONTACT AVEC LA PEAU	LLES CONDITIONS 7 TON DANGEREUX PERTIES OF M. SIGN ABSORPTION/AB I INVILITION CHRONIC N AIGUE & LA MATTERE		CONTACT/CONTACT OCULAIRE

5/02/2003 03:57 16304341356	WELDBOND UNIVERSAL' ADHESIVE	
D, DE LA MATERE (PRECISER LESPECE ET LA VOIE D'ADUMASTRATION)	LC DE LA MATERIAL (SPECIFY SPECIES & ROUTE). LC DE LA MATICRE (PRÉCISER L'ESPÈCE ET LA VOIE D'ADMINISTRATION)	
N/AV	N/AV	
N/AV	N/AV	
ENSITIZATION OF MATERIAL SENSIBILISATION & LA MATERIE N/AV	SYNERGISTIC MATERIALS/MATERIES SYNERGIQUES	
ANCINOGENCITY, REPRODUCTIVE EFFECTS, TERATOGENCITY, MUTAGENCITY/CANCEROGEN		
ASED ON AVAILABLE DATA, NONE EXPECTED		
ECTION VII - PREVENTIVES MEASURES / MESU	RES PRÉVENTIVES	
	IT/MATÉRIEL PERSONNEL DE PROTECTION	
EAR VINYL OR BUTYL GLOVES	EVE ISPECIEVITYEUX IPRÉCISERI WEAR GOGGLES	
SPRATORY ISPECIFY/APPAREL RESPIRATOIRE (PRÉCISER)		
N/AP		
THER (SPECIFY) AUTRES (PRECISER)		
N/AP		
CONCERNING CONTROLS IE O VENTILATION. ENCLOSED PROCESS. SPECIFY: MECANISMES TEL PROVIDE ADEQUATE VENTILATION.	CONCLES (EX. VENTILATION CHEMATON IN MILEU FEMME, PARUSER)	
AK AND SPILL PROCEDURE/MESURES EN CAS DE FUITE OU DE DEVERSEMENT		
KEED SPECTATOPS AWAY VENTILATE SP	THE AREA	
	VILL AREA. DIKE & SOAK UP SPILL WITH	
	TILL AREA. DIKE & SOAK UP SPILL WITH MAY BE SLIPPERY.	
ABSORBENT, INERT MATERIAL. FLOORS		
ABSORBENT, INERT MATERIAL. FLOORS	MAY BE SLIPPERY.	
ABSORBENT, INERT MATERIAL. FLOORS STE OSPOGAL/ELIMINATION DES RESIDUS SCOOP UP INTO CONTAINERS.	MAY BE SLIPPERY.	
ABSORBENT, INERT MATERIAL. FLOORS STE OSPOGAL/ELIMINATION DES RESIDUS SCOOP UP INTO CONTAINERS.	MAY BE SLIPPERY.	
ABSORBENT, INERT MATERIAL. FLOORS STE OSPOEAL/ELIMINATION DES RESIDUE SCOOP UP INTO CONTAINERS. USE GOVERNMENT APPROVED WASTE DISP MOLPO PROCEDURES AND EQUIPMENTS/METHODES ET EQUIPEMENT FOUR LA MUNATIENT	OSAL COMPANY FOR REMOVAL.	
ABSORBENT, INERT MATERIAL. FLOORS STE OSPOEAL (LIMMAATION DES RESIDUE SCOOP UP INTO CONTAINERS. USE GOVERNMENT APPROVED WASTE DISP MOLPO PROCEDURES AND EQUIPMENTS/METHODES ET EQUIPEMENT FOUR LA MUNATIENT	OSAL COMPANY FOR REMOVAL.	
ABSORBENT, INERT MATERIAL. FLOORS STE OSPOEAL (LIMMAATION DES RESIDUE SCOOP UP INTO CONTAINERS. USE GOVERNMENT APPROVED WASTE DISP MOLPO PROCEDURES AND EQUIPMENTS/METHODES ET EQUIPEMENT FOUR LA MUNATIENT	OSAL COMPANY FOR REMOVAL.	F
ABSORBENT, INERT MATERIAL. FLOORS STE DEPOCAL/ELIMINATION DES RESIDUE SCOOP UP INTO CONTAINERS. USE GOVERNMENT APPROVED WASTE DISP NOLMO PROCEDURES AND EQUIPMENTS/METHODES ET EQUIPEMENT FOUR LA MUNATEMIT AVOID CONTACT WITH SKIN & EYES. A SPACE RECURRENTS/EXCENCES DEDITREPOSAGE MAX. 49 DEG. C./120 DEG. F. STORE IN COOL PLACE. KEEP FROM FRI	MAY BE SLIPPERY. OSAL COMPANY FOR REMOVAL. ON YOID SPILLAGE. MIN. 5 DEG. C/41 DEG.	F
ABSORBENT, INERT MATERIAL. FLOORS STE DEPOSAL (LIMMANTION DES RESIDUE SCOOP UP INTO CONTAINERS. USE GOVERNMENT APPROVED WASTE DISP NOLMO PROCEDURES AND EQUIPMENTS/METHODES ET EQUIPEMENT POUR LA MUNATIENT AVOID CONTACT WITH SKIN & EYES. A DAVIGE REQUIREMENTS/EXIGENCES DEDITIREPOSAGE MAX. 49 DEG. C./120 DEG. F.	MAY BE SLIPPERY. OSAL COMPANY FOR REMOVAL. ON YOID SPILLAGE. MIN. 5 DEG. C/41 DEG.	F

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EYES: FLUSH WITH RUNNING WATER FOR AT LEAS	T 15 MINUTES. GET MEDICAL ATTENTION.
SKIN: REMOVE CONTAMINATED CLOTHING. "WASH	SKIN WITH SOAP & WATER".
INGESTION: DO INDUCE VOMITING. GET MEDICA	L ATTENTION.
ADOITIONAL NFORMATION/RENGEDQUEMENTS SUPPLEMENTARES	
W.H.M.I.S. NOT CONTROLLED.	
SECTION IX - PREPARATION DATE OF M.S.D.S. / FICHE	SIGNALÉTIQUE
PREPARED BY IGROUP, DEPARTMENT, ETC. JPRÉPARÉ PAR IGROUPE, DEPARTEMENT, ETC.)	TELEPHONE NUMBERING OF TELEPHONE DATE (416) 282-1107
· · · · ·	SEP 2 5 2002
ADDITIONAL NOTES OR REFERENCES/NOTES ADDITIONN	ELLES OU RÉFÉRENCES :
MOST PHYSICAL DATA HAVE BEEN OBTAINED FROM	THE FOLLOWING REFERENCE SOURCES:
1. CANADIAN CENTRE FOR OCCUPATIONAL HE	
2, SAX, IRVING, DANGEROUS PROPERTIES (	
3. RAW MATERIAL SUPPLIERS M.S.D.S.	
3. KAN PATERIAL SUFFLIERS H.S.D.S.	
	AP <u> NOT APPLICABLE</u>
oral, express or implied statutory or otherwise, (INCLUDING NO WARANTY OF MERCHANTABLITY OR FITHESS OF THE GOODS FOR (y THE PURPOSE, CONTENDIATED BY BUYER) concerning the goods sold hereunder or containers in which shipped and none shall be implied by law, EXCEPT THAT THE GOODS SHALL BE IN ACCORDANCE WITH THE SELLER'S SPECIFICATIONS; nor do we give ne permission, inducement or recommendation to practice any petented invention without a licence for the state of the stat	L n'existe aucune ou condition que ce soit, ecrite ou rale, aucune droit exprime ou tache, statutaire ou autre rochandises pour utilisation predies par l'acheteur) nomarnant les marchandises vendues ci-dessous ou les ontennants dans lesquels elles sont expedies et qu'aucune sers sous-entendue sous la loi. Sauf que les irchandises seront en conformite avec les specifications i vendeur. It aucune permission., incitation ou iccommandation est donnee visant a mettre en application
The information contained herein is based on data un considered accurate. However, no warranty is expressed or DI implied regarding the accuracy of these data or results to be obtained from the use thereof. FRANK T. RoBG & SONG damage to purchasers, users or third parties caused by the material. Such purchasers or users assume all risks associated with the use of the material. Let the use of the material.	is invention bravite sans licence. SISTEMBET STREET STREET

Item Numbers: 23819-0080, 23819-1003, 23819-1004, 23819-1006, 23819-1105

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05/02/2003 03:57 16304341356

PHASEIII

PAGE 06

Frank T. Ross & Sons Limited 6550 Lawrence Avenue East Toronto, Ontario, Canada M1C 4A7 Tel. (416) 282-1107 Fax (416) 282-8150 email: <u>info@franktross.com</u> www.franktross.com

No. Pages 1 + 4

Dear Sir or Madam,

We wish to advise that our product WELDBOND UNIVERSAL ADHESIVE is a non-controlled product. It is not hazardous, is non-toxic and non-flammable. It is not controlled under WHMIS in Canada and not controlled under OSHA in the United States. Weldbond falls under the classification as non-toxic as defined in the Federal Hazardous Substances Act U.S.A. It also falls under the classification listed under the Food & Drug Act #1212520. Weldbond also meets FDA approval for indirect food contact under Section 212CFR175.105.

We trust this is the information you require. If you need further information, please contact us again. We thank you for your interest in Weldbond.

Sincerely,

B. E. Ross C.E.O. . BER/md

EMERGENCY: Transportation SECTION 2 - HAZAR GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	CT AND COMPANY VELD-ON® 737™ TURF ' .ow VOC Solvent Cement n: CHEMTEL Tel. 800.255 CDS IDENTIFICATIO	'N AG™ Low VOC PVC Cem		a contente			
PRODUCT NAME: V PRODUCT USE: L SUPPLIER: EMERGENCY: Transportatio SECTION 2 - HAZAR SHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	VELD-ON® 737™ TURF ' .ow VOC Solvent Cement n: CHEMTEL Tel. 800.255 IDS IDENTIFICATIO	<b>'N AG™ Low VOC PVC Cem</b> for PVC Plastic Pipe	ent				NOV 2014
RODUCT USE: L SUPPLIER: MERGENCY: Transportatio SECTION 2 - HAZAR SHS CLASSIFICATION: Heal Acute Toxicity: C skin Irritation: C	ow VOC Solvent Cement	for PVC Plastic Pipe	ient				
SUPPLIER: EMERGENCY: Transportatio SECTION 2 - HAZAR GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	n: CHEMTEL Tel. 800.255						
EMERGENCY: Transportatio SECTION 2 - HAZAR GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	DS IDENTIFICATIO		ACTURER: IPS Corporat	tion			
SECTION 2 - HAZAR GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	DS IDENTIFICATIO		17109 South P.O. Box 379	Main Street, G ), Gardena, CA			
SECTION 2 - HAZAR GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C	DS IDENTIFICATIO	5-3924 +1 813-248-0585 (Inte	Tel. 1-310-89 Proational) Medical: CH		0 255-3924	+1 813-248-0	0585 (International)
GHS CLASSIFICATION: Heal Acute Toxicity: C Skin Irritation: C					0.200 002 1,		
Acute Toxicity: C Skin Irritation: C							
Skin Irritation: C		Environ				ysical	
	Category 4 Category 3	Acute Toxicity: Chronic Toxicity:	None Known None Known	Flammable Lie	quid		Category 2
	10	erneme ready.					
Eye: C	Category 2						
GHS LABEL:		Signal Word:	WHM	IIS CLASSIFICAT	ION:	CLASS B, D	
		Danger				CLASS D, D	IVISION 1B
	Hazard Statements		1	Precautiona	ry Statements	<u>6</u>	
H225: Highly flammable liquid and			P210: Keep away from heat/spa	arks/open flames	hot surfaces -	-	
H319: Causes serious eye irritation			P261: Avoid breathing dust/fum			ace protectio-	
1335: May cause respiratory irritati 1336: May cause drowsiness or dia			P280: Wear protective gloves/p P337+P313: Get medical advic		cyc protection/i	ace protection	
1351: Suspected of causing cance	er		P403+P233: Store in a well ven		p container tigh	tly closed	
UH019: May form explosive pero:			P501: Dispose of contents/cont	ainer in accordan	ce with local re	gulation	
SECTION 3 - COMPO	DSITION/INFORMA	TION ON INGREDIENT CAS# EINECS #	REACH			N	
			Pre-registration Number		% by Weight		
Fetrahydrofuran (THF) Methyl Ethyl Ketone (MEK)			05-2116297729-22-0000 05-2116297728-24-0000		48 - 60 5 - 15		
			05-2116297728-24-0000		5 - 15 10 - 20		
All of the constituents of this a	adhesive product are listed	d on the TSCA inventory of che	emical substances maintain	ed by the US E	PA, or are ex	empt from th	at listing.
		irements of Section 313 of the					OCFR372).
		5's List of chemicals known to t	ine State of California to cal	use cancer or n	eproductive to	DXICITY.	
SECTION 4 - FIRST A Contact with eyes: F		h plenty of water for 15 minute	and seek medical advice	immediately			
		thing and shoes. Wash skin th			develops, see	ek medical ad	lvice.
		athing is stopped, give artificia					
Ingestion: R Likely Routes of Exposure:		ive 1 or 2 glasses of water or r ye and Skin Contact	milk to dilute. Do not induce	e vomiting. See	ek medical ad	lvice immedia	ately.
Acute symptoms and effect		ye and okin oondot					
		result in nausea, dizziness, he					
		ble. Overexposure may result e natural skin oils resulting in sl					tact with the liquid.
		ng, diarrhea and mental sluggi			nongeu coma	ы.	
Chronic (long-term) effects:	Category 2 C	Carcinogen					
SECTION 5 - FIREFI							
Suitable Extinguishing Me Unsuitable Extinguishing		I powder, carbon dioxide gas, t	foam, Halon, water fog.	Health	HMIS 2	NFPA	0-Minimal 1-Slight
Exposure Hazards:		id dermal contact		Flammability	2	2 3	2-Moderate
Combustion Products:		rbon, hydrogen chloride and si	moke	Reactivity	0	0	3-Serious
Protection for Firefighters	Self-containe	ed breathing apparatus or full-f	face positive pressure airlin	PPE e masks	В		4-Severe
SECTION 6 - ACCIDI				o maono.			
Personal precautions:		rom heat, sparks and open flar	me.				
-		cient ventilation, use explosion	n-proof exhaust ventilation e	equipment or w	ear suitable r	espiratory pro	otective equipment.
		tact with skin or eyes (see sect duct or liquids contaminated wi		wers, drains er	oil or onen wa	ter course	
Environmental Precaution	Prevent cont	saos or inquino ooritarriiriateu Wi					
Environmental Precaution Methods for Cleaning up:	s: Prevent cont Prevent prod	h sand or other inert absorben	it material. Transfer to a cic				
Methods for Cleaning up: Materials not to be used for	Prevent cont s: Prevent prod Clean up with or clean up:	Aluminum or plastic containe					
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG	Aluminum or plastic containe					
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi	Aluminum or plastic containe E ith eyes, skin and clothing.	ers	loguato vontilat	ion/fumo oxb	aust boods	
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi	Aluminum or plastic containe E ith eyes, skin and clothing. y electrically grounded handling	ers	lequate ventilat	ion/fume exh	aust hoods.	
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drinl Storage: Store in ventilat	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i ignition sources, use only k or smoke while handling, ed room or shade below 4	Aluminum or plastic containe E ith eyes, skin and clothing. electrically grounded handling. - 4°C (110°F) and away from di	ers ng equipment and ensure ac irect sunlight.	·			
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drin Storage: Store in ventilat Keep away from	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi n ignition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco	Aluminum or plastic containe <b>E</b> ith eyes, skin and clothing. y electrically grounded handling.	ers Ig equipment and ensure ac irect sunlight. ammonia, inorganic acids, c	hlorinated com			and isocyanates.
Methods for Cleaning up: Materials not to be used fo SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all preca	s: Prevent cont Prevent prod Clean up with or clean up with or clean up with or clean up with or clean up ingnition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco utionary information on co	Aluminum or plastic contained E ith eyes, skin and clothing. y electrically grounded handling.	ers Ig equipment and ensure ac irect sunlight. ammonia, inorganic acids, c s and solvent cementing liter	hlorinated com rature.			and isocyanates.
Methods for Cleaning up: Materials not to be used fo SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all preca	s: Prevent cont Prevent prod Clean up with or clean up with or clean up with or clean up with or clean up ingnition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco utionary information on co	Aluminum or plastic containe <b>E</b> ith eyes, skin and clothing. y electrically grounded handling.	ers Ig equipment and ensure ac irect sunlight. ammonia, inorganic acids, c s and solvent cementing liter	hlorinated com rature.	pounds, stror	ng oxidizers a	and isocyanates.
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all preca SECTION 8 - PRECA EXPOSURE LIMITS:	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i ignition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco utionary information on co UTIONS TO CONTI	Aluminum or plastic containe E tith eyes, skin and clothing. y electrically grounded handling. 4°C (110°F) and away from di impatible materials: caustics, a intainer label, product bulletins ROL EXPOSURE / PER ACGIH TLV ACGIH STEL	ers  Ig equipment and ensure ac irect sunlight. ammonia, inorganic acids, c and solvent cementing liter <b>RSONAL PROTECTI</b> OSHA PEL OSHA STEL	hlorinated com rature. ON OSHA PEL-Ceiling	pounds, stror CAL/OSHA PEL	ng oxidizers a CAL/OSHA Ceiling	CAL/OSHA STEL
Methods for Cleaning up: Materials not to be used fo SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all preca SECTION 8 - PRECA EXPOSURE LIMITS:	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i ginition sources, use only k or smoke while handling, ed room or shade below 4 h ignition sources and inco utionary information on co UTIONS TO CONTI Component Tetrahydrofuran (THF)	Aluminum or plastic contained E tith eyes, skin and clothing. y electrically grounded handling. 44°C (110°F) and away from di impatible materials: caustics, a intainer label, product bulletins ROL EXPOSURE / PEF ACGIH TLV ACGIH STEL 50 ppm 100 ppm	ers  ag equipment and ensure ad irect sunlight. ammonia, inorganic acids, c and solvent cementing liter  RSONAL PROTECTI  OSHA PEL OSHA STEL 200 ppm N/E	hlorinated com rature. ON OSHA PEL-Ceiling N/E	CAL/OSHA PEL 200 ppm	ng oxidizers a CAL/OSHA Ceiling N/E	CAL/OSHA STEL 250 ppm
Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drind Storage: Store in ventilat Keep away from Follow all precan SECTION 8 - PRECA EXPOSURE LIMITS: T	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i ignition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco utionary information on co UTIONS TO CONTI	Aluminum or plastic contained E tith eyes, skin and clothing. y electrically grounded handling. 44°C (110°F) and away from di impatible materials: caustics, a intainer label, product bulletins ROL EXPOSURE / PEF ACGIH TLV ACGIH STEL 50 ppm 100 ppm	ers  Ig equipment and ensure ac irect sunlight. ammonia, inorganic acids, c and solvent cementing liter <b>RSONAL PROTECTI</b> OSHA PEL OSHA STEL	hlorinated com rature. ON OSHA PEL-Ceiling	pounds, stror CAL/OSHA PEL	ng oxidizers a CAL/OSHA Ceiling	CAL/OSHA STEL
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Methods for Cleaning up: Materials not to be used fo SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all preca SECTION 8 - PRECA EXPOSURE LIMITS: Engineering Controls: U Monitoring: M Personal Protective Equipi Eye Protection: A	s: Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i ginition sources, use only k or smoke while handling, ed room or shade below 4 n ignition sources and inco utionary information on co INTIONS TO CONTI Component Tetrahydrofuran (THF) Alethyl Ethyl Ketone (MEK) Acetone Jse local exhaust as needd Alaintain breathing zone air ment (PPE): Nooid contact with eyes, we to: as may be appropriate	Aluminum or plastic contained Aluminum or plastic contained ith eyes, skin and clothing. y electrically grounded handling. 4°C (110°F) and away from di impatible materials: caustics, a intainer label, product bulletins <b>ROL EXPOSURE / PER</b> ACGIH TLV ACGIH STEL 500 ppm 100 ppm 500 ppm 750 ppm ed. rborne concentrations below ex- ear splash-proof chemical gogg for the exposure.	ers  ag equipment and ensure ac irect sunlight. ammonia, inorganic acids, c s and solvent cementing liter <b>RSONAL PROTECTIO</b> OSHA PEL OSHA STEL 200 ppm N/E 200 ppm N/E 1000 ppm N/E axposure limits.  agles, face shield, safety glas	hlorinated com rature. ON OSHA PEL-Ceiling N/E N/E N/E N/E	CAL/OSHA PEL 200 ppm 200 ppm 500 ppm	CAL/OSHA Ceiling N/E N/E 3000 ppm	CAL/OSHA STEL 250 ppm 300 ppm 750 ppm
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Methods for Cleaning up: Materials not to be used for SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drind Storage: Store in ventilat Keep away from Follow all precan SECTION 8 - PRECA SECTION 8 - PRECA Exposure LIMITS: The Monitoring: Personal Protective Equiping Eye Protection: Skin Protection: C	Prevent cont Prevent prod Clean up with Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi i grition sources, use only k or smoke while handling, ed room or shade below 4 i grition sources and inco utionary information on co utionary information on co <b>LOTONS TO CONTI</b> Component Component Component Jethyl Ketone (MEK) Acetone Jes local exhaust as needed Maintain breathing zone air ment (PPE): Void contact with eyes, we the set on solvent-resistant glo	Aluminum or plastic contained Aluminum or plastic contained tith eyes, skin and clothing. y electrically grounded handling. t4°C (110°F) and away from di impatible materials: caustics, a natainer label, product bulletins <b>ROL EXPOSURE / PER</b> S0 ppm 100 ppm 200 ppm 300 ppm 500 ppm 750 ppm ed. rborne concentrations below e: ear splash-proof chemical gog: for the exposure. in as much as possible. Butyl yoes or solvent-resistant barrie	ers  ag equipment and ensure ad irect sunlight. ammonia, inorganic acids, c and solvent cementing liter <b>RSONAL PROTECTIO</b> OSHA PEL OSHA STEL 200 ppm N/E 200 ppm N/E 1000 ppm N/E  exposure limits.  agles, face shield, safety glas rubber gloves should be us or cream should provide ade	hlorinated com rature. ON OSHA PEL-Ceiling N/E N/E N/E N/E Sses (spectacle ed for frequent	CAL/OSHA PEL 200 ppm 200 ppm 500 ppm 500 ppm	CAL/OSHA Ceiling N/E N/E 3000 ppm	CAL/OSHA STEL 250 ppm 300 ppm 750 ppm
Methods for Cleaning up: Materials not to be used fo SECTION 7 - HANDL Handling: Avoid breathing Keep away from Do not eat, drini Storage: Store in ventilat Keep away from Follow all precan SECTION 8 - PRECA EXPOSURE LIMITS: Engineering Controls: L Monitoring: Eye Protection: Skin Protection: Respiratory Protection: Follow all precan Monitoring: Mon	Prevent cont Prevent prod Clean up with or clean up: ING AND STORAG of vapor, avoid contact wi h ignition sources, use only k or smoke while handling, ed room or shade below 4 h ignition sources and inco utionary information on co UTIONS TO CONTI Component Component Component Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Acetone Jse local exhaust as needd Aaintain breathing zone air ment (PPE): void contact with eyes, we kc. as may be appropriate Prevent contact with the sk Jse of solvent-resistant glo practices and procedures a Prevent inhalation of the sc	Aluminum or plastic contained ith eyes, skin and clothing. y electrically grounded handling. 4°C (110°F) and away from di impatible materials: caustics, a ntainer label, product bulletins ROL EXPOSURE / PEF ACGIH TLV ACGIH STEL 50 ppm 100 ppm 200 ppm 300 ppm 500 ppm 750 ppm ed. rborne concentrations below e saar splash-proof chemical goge for the exposure. in as much as possible. Butyl	ers  ag equipment and ensure ac irect sunlight. ammonia, inorganic acids, c and solvent cementing liter <b>RSONAL PROTECTION OSHA PEL</b> OSHA STEL 200 ppm N/E 200 ppm N/E 1000 ppm N/E 1000 ppm N/E axposure limits.  agles, face shield, safety glas rubber gloves should provide ade bonds. Open doors and/o	hlorinated com rature. ON OSHA PEL-Celling N/E N/E N/E N/E Ssees (spectacle ed for frequent squate protection or windows to either	CAL/OSHA PEL 200 ppm 200 ppm 500 ppm 500 ppm	CAL/OSHA Ceiling N/E N/E 3000 ppm guards and s nal adhesive a	CAL/OSHA STEL 250 ppm 300 ppm 750 ppm ide shields, application ges. Use local



#### **GHS SAFETY DATA SHEET**

WELD-ON® 737™ TURF 'N AG™ Low VOC PVC Cement

Date Revised: APR 2015 Supersedes: NOV 2014

SECTION 9 - PHYS						
Appearance:			clear), medium syrupy liqu	iid	<b>. .</b>	
Odor:		etone			Odor Threshold:	1 ppm (Acetone)
pH:		ot Applicable			D. 11	F000 (4000F) (+ 0000 (4700F)
Melting/Freezing Poir			3.3°F) Based on first meltir			56°C (133°F) to 80°C (176°F)
Boiling Point: Flash Point:			Based on first boiling comp CC based on Acetone	onent: Acetone		> 1.0 (BUAC = 1) Category 2
Specific Gravity:		.924 @23°C				LEL: 1.4% based on MEK
Solubility:			n soluble in water. Resin p	ortion senarates out		UEL: 12.8% based on Acetone
Partition Coefficient r			Not Available			190 mm Hg @ 20°C (68°F) Acetone
Auto-ignition Temper			based on THF			>2.0 (Air = 1)
Decomposition Temp		ot Applicable				Medium bodied
VOC Content:				Rule 1168. Test Metho	od 316A,VOC content is: < 510g/l.	
SECTION 10 - STAI						
Stability:		-	Stable			
Hazardous decompos	sition products.			n forced to burn this pr	oduct gives off oxides of carbon, h	ydrogen chloride and smoke
Conditions to avoid:	onion productor		Keep away from heat, spa			iyarogon onionao ana oniono.
Incompatible Materia	ls:		Oxidizers, strong acids an			
SECTION 11 - TOX				a sacco, aminoo, amino		
	COLOGICA					
oxicity:	-	LD <sub>50</sub>		LC		Target Organs
Tetrahydrofuran (THF)		oral: 2842 mg			tion 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	STOT SE3
Methyl Ethyl Ketone (MEK		-	/kg (rat), Dermal: 6480 mg		tion 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	STOT SE3
Acetone	0	oral: 5800 mg/	/kg (rat)	Inhala	tion 50,100 mg/m <sup>3</sup> (rat)	STOT SE3
Reproductive Effects	Teratoge	nicity	Mutagenicity	Embryotoxicit	y Sensitization to Product	Synergistic Products
Not Established	Not Estab		Not Established	Not Establishe		Not Established
SECTION 12 - ECO		FORMAT		4		
Ecotoxicity:	None Known					
Mobility:		mission of ve	alatila organia compounda	(VOC's) to the air takes	s place, typically at a rate of $\leq$ 510g	-//
Degradability:			siallie organic compounds		place, typically at a fate of < 0 for	yı.
Bioaccumulation:	Not readily biod Minimal to none					
	Willing to none					
			DERATIONS			
Follow local and national reg	gulations. Consu	ult disposal ex	xpert.			
Follow local and national re SECTION 14 - TRAN	gulations. Const NSPORT INF	ult disposal ex	xpert.			
Follow local and national re SECTION 14 - TRAN Proper Shipping Name:	gulations. Consu ISPORT INF A	ult disposal ex ORMATIC dhesives	xpert.			
Follow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class:	gulations. Consu ISPORT INF A 3	ult disposal ex ORMATIC dhesives	kpert.		CEPTION for Ground Shipping	
ollow local and national reg SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk:	gulations. Const ISPORT INF A 3 N	ult disposal ex ORMATIC dhesives	Apert. DN	d Quantity: Up to 5L pe	er inner packaging, 30 kg gross we	
Ollow local and national reg SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number:	gulations. Consu ISPORT INF A 3 N U	ult disposal e> ORMATIC dhesives one N 1133	Apert. DN	d Quantity: Up to 5L pe	er inner packaging, 30 kg gross we	ight per package. nay qualify under DOT as "ORM-D" .
Follow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	gulations. Consu ISPORT INF A 3 N U P	ult disposal ex ORMATIC dhesives lone IN 1133 G II	xpert. DN DOT Limite Consumer (	d Quantity: Up to 5L pe	er inner packaging, 30 kg gross we g on packaging, these quantities n	
ollow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	gulations. Consu ISPORT INF A 3 N U P C	ult disposal ex ORMATIC dhesives lone IN 1133 G II lass 3 Flamm	xpert. DN DOT Limite Consumer (	d Quantity: Up to 5L pe Commodity: Dependin	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION	nay qualify under DOT as "ORM-D" .
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ollow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant:	gulations. Consu ISPORT INF A 3 3 N U P C C N	ult disposal ex ORMATIC dhesives lone N 1133 G II lass 3 Flamm O	port. DOT Limite Consumer (	d Quantity: Up to 5L pe Commodity: Dependin	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES	nay qualify under DOT as "ORM-D" .
Follow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG	gulations. Consu ISPORT INF A 3 3 N U P C C N U ULATORY II	ult disposal ex ORMATIC dhesives lone N 1133 G II lass 3 Flamm O NFORMAT	Apert. DOT Limite Consumer ( nable Liquid	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG	Nay qualify under DOT as "ORM-D" .
Ollow local and national report of the second secon	gulations. Consu ISPORT INF A 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0	ult disposal ev ORMATIC dhesives Ione N 1133 G II lass 3 Flamm O NFORMAT ighly Flamma	port. DOT Limite Consumer (	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG USA TSCA, Europe EINECS, Can	ay qualify under DOT as "ORM-D" . LIQUID 3 II ada DSL, Australia
ollow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols:	gulations. Consu ISPORT INF A A 3 N U P C N ULATORY II nformation: H	ult disposal ex ORMATIC dhesives ione IN 1133 G II iass 3 Flamm O NFORMAT ighly Flamma , Xi	Apert. DOT Limite Consumer ( nable Liquid	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK Ingredient Listings:	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG USA TSCA, Europe EINECS, Can CS, Korea ECL/TCCL, Japan MITI	aay qualify under DOT as "ORM-D" . LIQUID 3 II ada DSL, Australia (ENCS)
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Collow local and national re- SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	gulations. Consu ISPORT INF A 3 W U P C C N ULATORY II nformation: H F R11: Highly flam R36/37: Irritating	ult disposal ex ORMATIC dhesives one N 1133 G II lass 3 Flamm O NFORMAT lighly Flamma , Xi mable. to eyes and r	Apert. DOT Limite Consumer ( Consumer ( Cons	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK Ingredient Listings: AlC R66: R R67: V	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG USA TSCA, Europe EINECS, Can 2S, Korea ECL/TCCL, Japan MITI epeated exposure may cause skin d apors may cause drowsiness and dia	ay qualify under DOT as "ORM-D" . LIQUID 3 II ada DSL, Australia (ENCS) ryness or cracking
Collow local and national report SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols:	gulations. Consu ISPORT INF A 3 4 3 4 3 4 3 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1	ult disposal ex ORMATIC dhesives one N 1133 G II lass 3 Flamm O NFORMAT ighly Flamma , Xi mable. to eyes and r the reach of cf	Apert. DOT Limite Consumer of nable Liquid FION able, Irritant, Carc. Cat. 2 espiratory system. hildren	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK Ingredient Listings: AIC R66: R R67: V S25: Avoid contact wi	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG USA TSCA, Europe EINECS, Can 25, Korea ECL/TCCL, Japan MITI epeated exposure may cause skin d apors may cause drowsiness and did th eyes.	ay qualify under DOT as "ORM-D" . LIQUID 3 II ada DSL, Australia (ENCS) ryness or cracking zziness
ollow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	gulations. Consu SPORT INF A 3 N U P C C N U ULATORY II nformation: H F R11: Highly flam R36/37: Irritating S2: Keep contair S9: Keep contair	ult disposal ex ORMATIC dhesives ione N 1133 G II ilass 3 Flamm O NFORMAT ighly Flamma , Xi mable. Ito eyes and ri the reach of ch rer in a well-ve	port. DOT Limite Consumer ( nable Liquid FION able, Irritant, Carc. Cat. 2 espiratory system. hildren entilated place.	d Quantity: Up to 5L pc Commodity: Dependin TDG CLASS: SHIPPING NAME: UN NUMBER/PACK Ingredient Listings: AIC R66: R R67: V S25: Avoid contact wi S26: In case of conta	er inner packaging, 30 kg gross we g on packaging, these quantities n TDG INFORMATION FLAMMABLE ADHESIVES ING GROUP: UN 1133, PG USA TSCA, Europe EINECS, Can 2S, Korea ECL/TCCL, Japan MITI epeated exposure may cause skin d apors may cause drowsiness and di th eyes. ct with eyes, rinse immediately with J	ay qualify under DOT as "ORM-D" .
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This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

WELD×	ON.	GHS SAFETY	DATA SH	IEET				
			_			<b>-</b>	Date Revised	: APR 2012
		31™ Plumbing Clear Lo	ow voc cer	nent for F	VC Plastic	чре	Supersedes:	
	_	ANY IDENTIFICATION						
PRODUCT NAME: PRODUCT USE:		nbing Clear Low VOC Cement ment for PVC Plastic Pipe	t for PVC Plasti	c Pipe				
SUPPLIER:	Low VOC Solvent Cel		FACTURER:	IPS Corporat	tion			
				17109 South	Main Street, Ga			
				P.O. Box 379 Tel. 1-310-89	9, Gardena, CA	90247-037	9	
EMERGENCY: Transportat	tion: CHEMTEL Tel. 80	0.255-3924, 813-248-0585 (Inte				760.602.87	03 3E Com	oany (International)
SECTION 2 - HAZA	RDS IDENTIFIC	ATION						
GHS CLASSIFICATION:	alth	Envir	onmental			Ph	vsical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known		Flammable Liqu		Joioui	Category 2
Skin Irritation: Skin Sensitization:	Category 3 NO	Chronic Toxicity:	None Known					
Eye:	Category 2B							
GHS LABEL:	$\mathbf{A}$		Signal Word		WHMIS CLASSIF	ICATION:	CLASS B, I	DIVISION 2
			Danger					
	Hazard Statement	<u>s</u>			Precautionary		_	
H225: Highly flammable liquid a H319: Causes serious eye irrita					oarks/open flames/h ne/gas/mist/vapors		- No smoking	
H319: Causes serious eye imia H332: Harmful if inhaled				-	protective clothing/		n/face protect	on
H335: May cause respiratory irr								osition comfortable for breathing
H336: May cause drowsiness of EUH019: May form explosive p					ntilated place. Keep tainer in accordanc			
		MATION ON INGREDIE						
		CAS# EINECS #	REA			CENTRATIC	DN	
Tetrahydrofuran (THF)		109-99-9 203-726-8	Pre-registration 05-21162977		76	by Weight 10 - 30		
Methyl Ethyl Ketone (MEK)		78-93-3 201-159-0				20 - 40		
Cyclohexanone Acetone		108-94-1 203-631-1 67-64-1 200-662-2	05-21162977			15 - 35 5 - 15		
	s adhesive product are	listed on the TSCA inventory of			ained by the US I		exempt from	m that listing.
		requirements of Section 313 of on 65's List of chemicals known						6 (40CFR372).
SECTION 4 - FIRS	· · ·				Lause cancer of	reproductiv	e toxicity.	
Contact with eyes:		ly with plenty of water for 15 mir	nutes and seek r	nedical advid	e immediately.			
Skin contact: Inhalation:		d clothing and shoes. Wash ski If breathing is stopped, give arti						
Ingestion:		er. Give 1 or 2 glasses of water						
SECTION 5 - FIRE								
Suitable Extinguishing I Unsuitable Extinguishin		mical powder, carbon dioxide ga pray or stream.	as, foam, Halon,	water fog.	Health	HMIS 2	NFPA 2	0-Minimal 1-Slight
Exposure Hazards:		on and dermal contact			Flammability	3	3	2-Moderate
Combustion Products:	Oxides	of carbon, hydrogen chloride an	d smoke		Reactivity	0	0	3-Serious
Protection for Firefighte	rs: Self-con	tained breathing apparatus or fu	ull-face positive	oressure airli	PPE ne masks.	В		4-Severe
SECTION 6 - ACCI								
Personal precautions:	Keep av	vay from heat, sparks and open			oquipment er ···		roopirata	protoctivo oquinment
		sufficient ventilation, use explose contact with skin or eyes (see s		ist ventilation	equipment or w	ear suitadie	respiratory	protective equipment.
Environmental Precautio	ns: Prevent	product or liquids contaminated	with product fro				water course	ð.
Methods for Cleaning up Materials not to be used		p with sand or other inert absort Aluminum or plastic conta		anster to a c	iosable steel ves	sel.		
SECTION 7 - HAND		•						
Handling: Avoid breathir	ng of vapor, avoid cont	act with eyes, skin and clothing.						
	om ignition sources, us ink or smoke while han	e only electrically grounded han Idling	dling equipment	and ensure	adequate ventila	tion/fume e	xhaust hood	IS.
	or ornore write iidi		n direct sunlight					
Storage: Store in ventil	ated room or shade be	low 44 ℃ (110 °F) and away from				م مام سوم	nona ovidina	ra and incovanator
Keep away fro	om ignition sources and	d incompatible materials: caustion				ipounds, si	rong oxidize	is and isocyanates.
Keep away fro Follow all pred	om ignition sources and cautionary information	d incompatible materials: caustion container label, product bulle	tins and solvent	cementing li	terature.	ipounds, st		
Keep away fro Follow all pred	om ignition sources and cautionary information	d incompatible materials: caustion	tins and solvent	cementing li	terature.	ipounds, st		
Keep away fro Follow all prec SECTION 8 - PREC	om ignition sources and cautionary information CAUTIONS TO CO Component Tetrahydrofuran (THF	d incompatible materials: caustic on container label, product bulle DNTROL EXPOSURE / 1 ACGIH TLV ACGIH STE ) 50 ppm 100 ppm	tins and solvent PERSONAL COSHA PEL 200 ppm	cementing li	terature.			
Keep away fro Follow all prec SECTION 8 - PREC	om ignition sources and cautionary information CAUTIONS TO CO Component	d incompatible materials: caustid on container label, product bulle DNTROL EXPOSURE / ACGIH TLV ACGIH STEI ) 50 ppm 100 ppm MEK) 200 ppm 300 ppm	tins and solvent PERSONAL COSHA PEL 200 ppm 200 ppm	cementing li	terature.			
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Keep away fro Follow all pred SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls:	om ignition sources and cautionary information CAUTIONS TO CO Component Tetrahydrofuran (THF Methyl Ethyl Ketone (I Cyclohexanone Acetone Use local exhaust as I	d incompatible materials: caustic on container label, product bulle DNTROL EXPOSURE / 1 ACGIH TLV ACGIH STE ) 50 ppm 100 ppm 200 ppm 300 ppm 20 ppm 50 ppm 50 ppm 750 ppm heeded.	titins and solvent PERSONAL 200 ppm 200 ppm 50 ppm 1000 ppm	Cementing li PROTEC OSHA STEL:	terature.			
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Keep away fro Follow all pred SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ	Autionary information of Component Component Tetrahydrofuran (THF Methyl Ethyl Ketone (I Cyclohexanone Acetone) Use local exhaust as I Maintain breathing zor ipment (PPE): Avoid contact with eye etc. as may be approp Prevent contact with t Use of solvent-resista	d incompatible materials: caustic on container label, product bulle DNTROL EXPOSURE / ACGIH TLV ACGIH STE 50 ppm 100 ppm 20 ppm 50 ppm 500 ppm 750 ppm needed. ne airborne concentrations below ss, wear splash-proof chemical so priate for the exposure. he skin as much as possible. Bu nt gloves or solvent-resistant back	tins and solvent PERSONAL L OSHA PEL 200 ppm 200 ppm 1000 ppm w exposure limit goggles, face sh utyl rubber glove arrier cream sho	cementing li PROTEC OSHA STEL: s. ield, safety g s should be a	terature. TION lasses (spectacl used for frequent	es) with bro	ow guards a	nd side shields,
Keep away fro Follow all pred SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ Eye Protection: Skin Protection:	om ignition sources and cautionary information of Component Tetrahydrofuran (THF Methyl Ethyl Ketone (I Cyclohexanone Acetone Use local exhaust as in Maintain breathing zon <b>joment (PPE):</b> Avoid contact with eye etc. as may be approp Prevent contact with t Use of solvent-resista	d incompatible materials: caustic on container label, product bulle DNTROL EXPOSURE / ACGIH TLV ACGIH STE ) 50 ppm 100 ppm 20 ppm 300 ppm 20 ppm 50 ppm 500 ppm 750 ppm needed. ne airborne concentrations below s, wear splash-proof chemical griate for the exposure. he skin as much as possible. But nt gloves or solvent-resistant ba pres are used for making structu	tins and solvent PERSONAL 200 ppm 200 ppm 1000 ppm 1000 ppm w exposure limit goggles, face sh utyl rubber glove arrier cream shour ral bonds.	cementing li PROTEC OSHA STEL: S. ield, safety g s should be a uld provide a	terature. TION lasses (spectacl used for frequent dequate protection	es) with bro immersion on when no	ow guards and rrmal adhesi	nd side shields,
Keep away fro Follow all pred SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ Eye Protection: Skin Protection:	Autionary information of Component Component Tetrahydrofuran (THF Methyl Ethyl Ketone (Cyclohexanone Acetone Use local exhaust as I Maintain breathing zoo ipment (PPE): Avoid contact with eye etc. as may be approp Prevent contact with t Use of solvent-resista practices and proced. Prevent inalation of t exhaust exhaust ventilation to	d incompatible materials: caustic on container label, product bulle DNTROL EXPOSURE / ACGIH TLV ACGIH STE 50 ppm 100 ppm 20 ppm 50 ppm 500 ppm 750 ppm needed. ne airborne concentrations below ss, wear splash-proof chemical so priate for the exposure. he skin as much as possible. Bu nt gloves or solvent-resistant back	tins and solvent PERSONAL 200 ppm 200 ppm 50 ppm 1000 ppm w exposure limit goggles, face sh utyl rubber glove arrier cream shor ral bonds. liated room. Op from employee b	cementing li PROTEC OSHA STEL: S. ield, safety g s should be u uld provide a en doors and oreathing zon	Iterature.	es) with bro immersion on when no nsure airflo ntaminants	ow guards and rmal adhesi w and air ch s below leve	nd side shields, ve application anges. Use local s listed above.

WELD XON. GHS SAFE

#### GHS SAFETY DATA SHEET

Date Revised: APR 2012 Weld-On<sup>®</sup> 781™ Plumbing Clear Low VOC Cement for PVC Plastic Pipe Supersedes:

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES Appearance: Clear medium syrupy liquid Odor: Ketone Odor Threshold: 0.88 ppm (Cyclohexanone) pH: Not Applicable Melting/Freezing Point: -108.5 °C (-163.3 °F) Based on first melting component: THF Boiling Range: 56 °C (133 °F) to 156 °C (313 °F) Boiling Point: 56 °C (133 °F) Based on first boiling component: Acetone Evaporation Rate: > 1.0 (BUAC = 1) Flash Point: -20 °C (-4 °F) TCC based on Acetone . Flammability: Category 2 Specific Gravity: 0.920 @23 °C (73 °F) Flammability Limits: LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone Solubility: Solvent portion soluble in water. Resin portion separates out. Partition Coefficient n-octanol/water: Not Available Vapor Pressure: 190 mm Hg @ 20 °C (68 °F) Acetone Auto-ignition Temperature: 321 °C (610 °F) based on THF Vapor Density: >2.0 (Air = 1) Decomposition Temperature: Not Applicable Other Data: Viscosity: Medium bodied When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: < 510 g/l. VOC Content: SECTION 10 - STABILITY AND REACTIVITY Stability: Stable Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke. Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources. Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia SECTION 11 - TOXICOLOGICAL INFORMATION Likely Routes of Exposure: Inhalation, Eve and Skin Contact Acute symptoms and effects Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. May cause nausea, vomiting, diarrhea and mental sluggishness. Indestion: Chronic (long-term) effects: None known to humans LD50 LC50 Toxicity: Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m<sup>3</sup> (rat) Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Inhalation 50,100 mg/m<sup>3</sup> (rat) Acetone Oral: 5800 mg/kg (rat) **Reproductive Effects** Teratogenicity Embryotoxicity Sensitization to Product Synergistic Products **Mutagenicity** Not Established Not Established Not Established Not Established Not Established Not Established SECTION 12 - ECOLOGICAL INFORMATION Ecotoxicity: None Known Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of < 510 g/l. Degradability: Biodegradable Bioaccumulation: Minimal to none SECTION 13 - WASTE DISPOSAL CONSIDERATIONS Follow local and national regulations. Consult disposal expert. **SECTION 14 - TRANSPORT INFORMATION** Proper Shipping Name: Adhesive **EXCEPTION** for Ground Shipping Hazard Class: 3 DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Secondary Risk: None Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Identification Number: UN 1133 Packing Group: PG II Label Required: Class 3 Flammable Liquid TDG INFORMATION Marine Pollutant: NO TDG CLASS: FLAMMABLE LIQUID 3 SHIPPING NAME: ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II SECTION 15 - REGULATORY INFORMATION Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Irritant AICS, Korea ECL/TCCL, Japan MITI (ENCS) Symbols: F. Xi **Risk Phrases:** R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking R20-Harmful by inhalation. R67: Vapors may cause drowsiness and dizziness R36/37: Irritating to eyes and respiratory system. Safety Phrases: S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges. S25: Avoid contact with eves. S46: If swallowed, seek medical advise immediately and show this container or label. **SECTION 16 - OTHER INFORMATION** Specification Information: Department issuing data sheet: IPS, Safety Health & Environmental Affairs All ingredients are compliant with the requirements of the European E-mail address: Directive on RoHS (Restriction of Hazardous Substances). <EHSinfo@ipscorp.com> Training necessary: Yes, training in practices and procedures contained in product literature. 6/15/2012 / Updated GHS Standard Format Reissue date / reason for reissue:

Solvent Cement for PVC Plastic Pipe

Intended Use of Product:

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

# Mercury Marine Premium Plus TC-W3 Two Cycle Engine Oil Material Safety Data Sheet

Mercury Marine W6250 W. Pioneer Rd. Fond du Lac, WI 54935

MSDS No.

091-0965QC

Revision Date

Mild petroleum odor

3/5/2009

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

### **Emergency Overview**

Odor

Physical State Liquid.

Color Green.

WARNING:

**Contains Petroleum Distillates.** 

Harmful if swallowed - Can enter lungs and cause damage. If swallowed, DO NOT induce vomiting. Call a physician

immediately.

Combustible Liquid.

Heated material can release vapor that can cause flash fire. Spills may create a slipping hazard.

> Two Cycle Engine Oil Quicksilver Canada

Part Number(s) Continued:

858028QB1, 858026QC1, 858027QC1,

858028QC1, 858029QC1, 858031Q01

92-858026QB1, 858027QB1.

# SECTION 1. PRODUCT IDENTIFICATION

Mixture.

Product Name

Product Line

**CAS Number** 

Mercury Marine Premium Plus TC-W3

**Technical Contact** 

(920) 929-5000

Hazard Rankings

= Chronic Health Hazard

**Protective Equipment** 

Minimum Recommended

See Section 8 for Details

Health Hazard

Fire Hazard

Reactivity

**HMIS NFPA** 

1

2

0

\* 1

2

0

CHEMTREC Emergency (United States Only)

Continued on Next Page

(800) 424-9300

Part Number(s): 92-858026E01, 858026Q01, 858027E01, 858027Q01, 858028E01, 858028Q01, 858029Q01, 858025Q01, 824402A 1, 824402A 2, 824402A 4, 824402A 6, 824402A 10, 824402A12, 824402A30, 824402A40, 826667A24, 826667A40, 831281A12, 831281A40, 831283A 6, 831283A30, 831287A 2, 831287A40, 857384A 1, 857385A 1, 857386A 1, 857387A 1, 857387A26, 857469A 1

# **SECTION 2. COMPOSITION**

#### **Component Name(s)**

Highly-refined petroleum lubricant oils Distillates (petroleum), hydrotreated light Reaction products of isooctadecanoic acid Polyisobutylene Proprietary Ingredients

CAS Registry No.	Concentration (%)
Various	40 - 70
64742-47-8	<25
Proprietary	7 - 13
9003-27-4	3 - 7
Proprietary Mixture	1 - 5

# **SECTION 3. HAZARDS IDENTIFICATION**

### Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Eye contact. Inhalation.

**Revision Date** 

### Signs and Symptoms of Acute Exposure

625075316

Inhalation

MSDS No.

3/5/2009

Eye Contact	This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. Symptoms include stinging, watering, redness, and swelling.
Skin Contact	This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation (dermatitis).
Ingestion	If swallowed, large volumes of material can cause generalized depression, headache, drowsiness, nausea, vomiting and diarrhea. Smaller doses can cause a laxative effect. If aspirated into the lungs, liquid can cause lung damage.
Chronic Health Effects Summary	Prolonged and/or repeated skin contact may cause irritation and inflamation. Symptoms include defatting, redness, dryness, blistering eczema-like lesions, scaly dermatitis, and/or more serious skin disorders. Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction.
Conditions Aggravated by Exposure	Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Liver, Kidneys, Central Nervous System (CNS)
Target Organs	May cause damage to the following organs: upper respiratory tract, skin, eyes
Carcinogenic Potential	This product is not known to contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Health Hazard Classification			OSHA Physical Hazard Classification						
Irritant Toxic Corrosive		Sensitizer Highly Toxic Carcinogenic		Combustible Flammable Compressed Gas	X	Explosive Oxidizer Organic Peroxide		Pyrophoric Water-reactive Unstable	

## **SECTION 4. FIRST AID MEASURES**

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation	Move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately. Keep the affected individual warm and at rest.
Eye Contact	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.
Skin Contact	If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Clean or discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.
Ingestion	Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. If significant amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.

Notes to Physician INGESTION: The viscosity range of the product(s) represented by this MSDS is greater than 100 SUS at 100°F. Careful gastric lavage may be considered to evacuate large quantities of material.

### **SECTION 5. FIRE FIGHTING MEASURES**

NFPA Flammability Classification	NFPA Class-IIIA combustible lid	quid.	
Flash Point	Closed cup: 62°C (144°F). (Per (Cleveland.).	nsky-Martens (ASTM D-93))	Open cup: 85°C (185°F)
Lower Flammable Limit	No data.	Upper Flammable Limit	No data.
Autoignition Temperature	Not available.		
Hazardous Combustion Products	Carbon dioxide, carbon monoxi of sulfur and/or nitrogen.	de, smoke, fumes, unburned	hydrocarbons and trace oxides
Special Properties	This material will release vapors ignite when exposed to a source explosive force. Mists or sprays	e of ignition. In enclosed spa	aces, vapors can ignite with
Extinguishing Media	SMALL FIRE: Use dry chemical dioxide and inert gas can displat inert gas in confined spaces. LARGE FIRE: Use foam, water cooling containers and adjacent not extinguish the fire. Water co excessive pressure, autoignition on the fire as the water may spr	ce oxygen. Use caution when fog, or water spray. Water structures. However, water an be used to cool the extern or explosion. DO NOT use	fog and spray are effective in can cause frothing and/or may nal walls of vessels to prevent a solid stream of water directly
Protection of Fire Fighters	Firefighters must use full bunker self-contained breathing appara decomposition products and oxy there is a rising sound from a ver pipelines.	tus to protect against potenti /gen deficiencies. Withdraw	al hazardous combustion or immediately from the area if

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

## SECTION 7. HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Avoid contact with oxidizing agents. Do not breathe vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Follow proper entry procedures, including compliance with 29 CFR 1910.146 prior to entering confined spaces such as tanks or pits. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure limits. Use appropriate respiratory protection when concentrations exceed any established occupational exposure level (See Section 8). Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Non equilibrium conditions may increase the fire hazard associated with this product. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards. Carefully review operations that may increase the risks such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Always keep nozzle in contact with the container throughout the loading process. Do NOT fill any portable container in or on a vehicle. Do NOT use compressed air for filling, discharging or other handling operations.

Product container is not designed for elevated pressure. Do not pressurize, cut, weld, braze solder, drill, or grind on containers. Do not expose product containers to flames, sparks, heat or other potential ignition sources. Empty containers may contain product residues that can ignite with explosive force. Observe label precautions. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

Storage Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store only in approved containers. Do not store with oxidizing agents. Do not store at elevated temperatures or in direct sunlight. Protect containers against physical damage. Head space in tanks and other containers may containers may contain vapor in the flammable range. Vapor may be ignited by static discharge. Storage area must meet OSHA requirements and applicable fire codes.

Additional information regarding the design and control of hazards associated with the handling and storage of flammable and combustible liquids may be found in professional and industrial documents including, but not limited to, the National Fire Protection Association (NFPA) publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77 ("Recommended Practice on Static Electricity") and the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids)."

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls
 Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.
 Personal Protective Equipment
 Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For

MSDS No. 625075316

certain operations, additional PPE may be required.



- **Eye Protection** Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Wear goggles if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.
- **Hand Protection** Avoid skin contact. Use heavy duty gloves constructed of chemical resistant materials such as Viton® or heavy nitrile rubber. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.
- **Body Protection** Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.
- **Respiratory Protection** The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
- **General Comments** Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure limits shown below are suggested as minimum control guidelines.

#### **Occupational Exposure Guidelines**

Substance	Applicable Workplace Exposure Levels
Oil Mist, Mineral	ACGIH (United States).
	TWA: 5 mg/m <sup>3</sup>
	STEL: 10 mg/m <sup>3</sup>
	OSHA (United States).
	TWA: 5 mg/m <sup>3</sup>
Petroleum hydrocarbon distillates	ACGIH (United States).
	TWA: 100 ppm
	OSHA (United States).
	TWA: 500 ppm

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State	Liquid.	Color	Green.		Odor	Mild petroleum odor
Specific Gravity	0.87 (Water = 1)	рН	Not applicabl	е	Vapor Density	>1 (Air = 1)
Boiling Range	Not available.			Melting/ Point	Freezing	Not available.
Vapor Pressure	<0.1 kPa (<1 mm Hg)	(at 20°C)	,	Volatility	y	AP 250 g/l VOC (w/v)
Solubility in Water	Negligible solubility in	cold water		Viscosit (cSt @ 4		31
Flack Daint	Closed ours COPC (14	4°F) (Dama	alu Mantana (/		02)) Onen	

Flash Point Closed cup: 62°C (144°F). (Pensky-Martens (ASTM D-93)) Open cup: 85°C (185°F) (Cleveland.).

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AdditionalGravity, °API (ASTM D287) = 31.8 @ 60° FPropertiesDensity = 7.22 Lbs/gal.Viscosity (ASTM D2161) = 159 SUS @ 100° F

# SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable.	Hazardous Polymerization	Not expected to occur.
Conditions to Avoid	Keep away from extreme he	eat, sparks, open flame, and str	ongly oxidizing conditions.
Materials Incompatibility	Strong oxidizers.		
Hazardous Decomposition Products	No additional hazardous de products identified in Sectio	• •	tified other than the combustion

# SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data	Highly-refined petroleum lubricant oils		
	ORAL (LD50):	Acute: >5000 mg/kg [Rat].	
	DERMAL (LD50):	Acute: >2000 mg/kg [Rabbit].	

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

#### Distillates (petroleum), hydrotreated light

ORAL (LD50):	Acute:	>5000 mg/kg [Rat].
DERMAL (LD50):	Acute:	>2000 mg/kg [Rabbit].

Studies on laboratory animals have associated similar materials with eye and respiratory tract irritation. Repeated exposure to elevated concentrations of hydrocarbon solvents can produce a variety of transient CNS effects (e.g., dizziness, headache, narcosis, etc). Studies on laboratory animals have shown similar materials to cause skin irritation after repeated or prolonged contact. Repeated direct application of similar materials to the skin can produce defatting dermatitis and kidney damage in laboratory animals. The most common effects observed in repeated dose animal studies with mineral spirits are kidney changes that are consistent with an alpha 2u-globulin- mediated process that is not regarded as relevant to humans. Certain studies have reported effects in the liver as well as hematological or urine chemistry changes. In general, these effects have not to been shown to be dose-related.

### Reaction products of isooctadecanoic acid

This product contains a proprietary component that can cause eye and skin irritation. In addition, this product contains a proprietary component that may cause damage to the liver and thyroid following repeated ingestion based on animal data.

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.
 Environmental Fate An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an

# **SECTION 13. DISPOSAL CONSIDERATIONS**

anaerobic environment.

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose this product's empty container to heat, flame, or other ignition sources. DO NOT attempt to clean it. Empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

## **SECTION 14. TRANSPORT INFORMATION**

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States. **US DOT Status** A U.S. Department of Transportation regulated material. Proper Shipping Name UN1268, Petroleum Distillates, n.o.s., Combustible Liquid [This product has a flash point temperature between 60.5° to 93°C (141° and 200°F). Bulk shipments of this product are regulated.] Combustible liquid. **Hazard Class** Packing Group Combustible liquid **UN/NA Number** UN 1268 **Reportable Quantity** A Reportable Quantity (RQ) has not been established for this material. Placard(s) 128 **Emergency Response** Guide No. **MARPOL III Status** Not a DOT "Marine COMBUSTIBLE Pollutant" per 49 CFR 171.8.

3/5/2009

**Oil:** The product(s) represented by this MSDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

# SECTION 15. REGULATORY INFORMATION

TSCA Inventory	This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.
SARA 302/304 Emergency Planning and Notification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
SARA 311/312 Hazard Identification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:
	Fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard
SARA 313 Toxic Chemical Notification and Release Reporting	This product contains the following components in concentrations above <i>de minimis</i> levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No components were identified.
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.
Clean Water Act (CWA)	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
California Proposition 65	This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Naphthalene: <0.05% Ethylbenzene: <0.01%
New Jersey Right-to-Know Label	Petroleum Oil (Two Cycle Engine Oil)
Additional Remarks	No additional regulatory remarks.

### **SECTION 16. OTHER INFORMATION**

REVISION INFORMATION				
Version Number	4.0			
Revision Date	3/5/2009			
ABBREVIATIONS				
AP: Approximately	EQ: Equal	>: Greater Than	<: Less Than	
NA: Not Applicable	ND: No Data	NE: Not Established		
ACGIH: American Confere	ence of Governmental Industria	l Hygienists		
AIHA: American Industrial	Hygiene Association			
IARC: International Agenc	y for Research on Cancer			
NIOSH: National Institute	of Occupational Safety and Hea	alth		
NPCA: National Paint and	Coating Manufacturers Associ	ation		
EPA: US Environmental P	rotection Agency			
HMIS: Hazardous Materia	Is Information System			
OSHA: Occupational Safe	ty and Health Administration			
NTP: National Toxicology	Program			
NFPA: National Fire Prote	ction Association			

Manufacturer, CITGO Petroleum Corp., PO Box 4689, Houston, TX 77210

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THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

\*\*\*\*\* END OF MSDS \*\*\*\*\*



# MATERIAL SAFETY DATA SHEET

	1. Product and Company Identification
Product number	715-003
Product name	White Lithium Grease Lubricating Spray
Effective date	29-Mar-2011
Company information	Claire Mfg. 500 Vista Ave. Addison, IL 60101 United States
Company phone	General Assistance 1-630-628-3000
Emergency telephone US	800-424-9300
Emergency telephone outside US	703-527-3887
Version #	06
Supersedes date	30-Dec-2010
	2. Hazards Identification
Emergency overview	Aerosol. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE. Irritating to skin. Irritating to eyes. Irritating to respiratory system. Prolonged exposure may cause chronic effects. EXTREMELY FLAMMABLE
Potential health effects	
Routes of exposure	Inhalation. Skin contact.
Eyes	Causes eye irritation.
Skin	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system.
Ingestion	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.
Target organs	Central nervous system.
Chronic effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.
Signs and symptoms	Narcosis.
3	. Composition / Information on Ingredients

Components	CAS #	Percent
Petroleum Distillate	64742-52-5	30 - 40
Aliphatic Petroleum Solvent	64742-89-8	30 - 40
Propane	74-98-6	15 - 20
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	8 - 10
Non-hazardous and other components below reportable levels		1 - 2.5

4. First Aid Measures	
First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists after washing.
Skin contact	Wash off immediately with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Ingestion	naturally with the	/, have victim lean forwar	upped with a one-way valve	enter. If vomiting occurs on. Induce artificial respiration e or other proper respiratory	
Notes to physician		ms may be delayed.	initioalatory.		
		5. Fire Fighting Me	asures		
Flammable properties			o explode. Vapor or gas ma o sewer may cause fire or e	ay spread to distant ignition explosion hazard.	
Extinguishing media			-		
Suitable extinguishing med Protection of firefighters	lia Water fo	og. Carbon dioxide (CO2)	. Dry chemicals.		
Protective equipment and precautions for firefighters	water to without For mas	In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.			
	6. <i>A</i>	Accidental Release	Measures		
Methods for containment			t risk. Move the cylinder to of material, if this is without	a safe and open area if the trisk.	
Methods for cleaning up		on-combustible material l ce into a container for late	ike vermiculite, sand or ear er disposal.	th to soak up the product	
		pills: Wipe up with absork hly to remove residual co	pent material (e.g. cloth, fleen ntamination.	ece). Clean surface	
		7. Handling and St	orage		
Handling	or until s exhaust empty c skin. Av	Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear personal protective equipment. Avoid prolonged exposure.			
Storage	Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Store in a well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 2 Aerosol.				
	8. Expos	ure Controls / Pers	onal Protection		
Exposure limits ACGIH					
Components	CAS #	TWA	STEL	Ceiling	
Propane	74-98-6	1000 ppm	Not established	Not established	
OSHA					
Components	CAS #	TWA	STEL	Ceiling	
Propane	74-98-6	1000 ppm	Not established	Not established	
Personal protective equipment					
Eye / face protection	Not norr	nally needed.			
Skin protection	Wear protective gloves.				
Respiratory protection		eded use NIOSH mecha	ained breathing apparatus ( nical filter / organic vapor c	(SCBA). If permissible levels cartridge or an air-supplied	
	9. PI	hysical & Chemical	Properties		
Appearance	Compre	ssed liquefied gas.			
Boiling point	368.6 °F	(187.2 °C) estimated			
Product name: White Lithium Grease				MSD	

Color White. Density 0.7192 gran3 estimated Density 0.7192 gran3 estimated Flambability (HOC) 26,739 kJg estimated Flash back Yes Flash back Yes Flash back Yes Flash point -156 °F (-104.4 °C) Propellant Form Aerosol. Freezing point Not available Odor Solvent. pH Not applicable Physical state Liquid. The synthesis of the synthes		NAU-34-		
Flammability (HOC)     26.798 KJg estimated       Flash back     Yes       Flash back     Yes       Freezing point     Acrosol.       Form     Acrosol.       Freezing point     Not available       Oder     Solvent.       pH     Not applicable       Physical state     Liquid.       Pressure     70 - 90 psig @ 70F       Solubility     Partially       Specific gravity     0.7193 estimated       Incompatible materials     Strong oxidizing agents.       Hazardous decomposition products     May include oxides of carbon. No hazardous decomposition products are known.       Incompatible materials     Acute LDS: 2886 mg/kg estimated, Rat, Dermal       Acute effects     Acute LDS: 2806 mg/kg estimated, Rat, Inhalation       Component analysis - LDS0     Toxicology Data - Soleced LDSe and LCS0       Perioleum Distilate     64742-825 or Inhalaton (LS0 Rat 28 mg/L 4 h) Chail LDS0 Rati 5000 mg/kg. Dermal LD50 Rabit 3000 mg/	• • • • •			
Flash back       Yes         Flash point       -156 °F (-(0.4.4 °C) Propellant         Form       Aerosol.         Freezing point       Not available         Odor       Solvent.         pH       Not available         Odor       Solvent.         pH       Not applicable         Pressure       70 - 90 paig @ 70F         Solubility       Partially         Specific gravity       0.7193 estimated         Incompatible materials       Strong oxidizing agents.         Hazardous decomposition products       May include oxides of carbon. No hazardous decomposition products are known.         Component analysis - LDS0       Acute LDS0: 2886 mg/kg estimated. Rat. Inhalation         Component analysis - LDS0       Oni LDS0 Mouse 500 mg/kg: Demail LDS0 Rat>5000 mg/kg.         Protexim Dutitiate       6474-29-2       Inhalation LCS0 Rat >5 mg/L 4h: Cral LDS0 Rat>5000 mg/kg.         Propane       74-89-6       Inhalation LCS0 Rat >5.2 mg/L 4h: Cral LDS0 Rat>5000 mg/kg.         Synthetic lopparafinic       6474-29-2       Inhalation LCS0 Rat >5.2 mg/L 4h: Cral LDS0 Rat >5000 mg/kg.         Stocopical Information       Stocopical Information         Ecotoxicity       LCS0 480 mg/L estimated, Fish, 96.00 Hours, LCS0 1406 mg/L estimated, Agae, 72.00 Hours, LCS0 1406 mg/L estimated, Agae, 72.00 Hours, LCS0 1406 mg/		5		
Flash point     -156 °F (-104.4 °C) Propellant       Form     Aerosol.       Freezing point     Not available       Odor     Solvent.       pH     Not applicable       Physical state     Liquid.       Pressure     70 - 90 psig @ 70F       Solubility     Partially       Specific gravity     0.7193 estimated       Incompatible materials     Strong oxidizing agents.       Hazardous decomposition products     May include oxides of carbon. No hazardous decomposition products are known.       Incompatible materials     Strong oxidizing agents.       Hazardous decomposition products     Auge include oxides of oxides of carbon. No hazardous decomposition products are known.       Component analysis - LD50     Toxicolog/Data - Selected D56s and LC50s       Toxicology Data - Selected D56s and LC50s     Audue LC50: Page may for any L A: Oral LD50 Nause 5000 mg/kg. Demai LD50 Nause 5000 mg/kg. Demai LD50 Propane       Propane     Fr49 e     Initiation LC50 Rat 2.3 mg/L A: Oral LD50 Rat 5000 mg/kg. Demai LD50 Propane       Sensitization     Not expected to be hazardous by OSHA criteria.       Iteration     Not expected to be hazardous by OSHA criteria.       Iteration     Not expected to be hazardous by OSHA criteria.       Iteration     Not expected to be hazardous by OSHA criteria.       Iteration     Not expected to be hazardous by OSHA criteria.       Iter		-		
Form         Aerosol           Freezing point         Not available           Oder         Solvent.           pH         Not applicable           Physical state         Liquid.           Pressure         70 - 90 paig @ 70F           Solubility         Partially           Specific gravity         0.7193 sestimated           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Component analysis - LD50         Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LD50: Rate Sea mg/L4h estimated, Rat, Inhalation           Component analysis - LD50         Toxicology Data - Selected LD59 and LC50s at Information           Acute effects         Acute LC50: 2496 mg/kg estimated, Rat, Inhalation           Component analysis - LD50         Toxicology Data - Selected LD59 and LC50s Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate S5000 mg/kg. Dermal LD50 Rate Sea mg/L 4h: Carl LD50 Rate S5000 mg/kg. Dermal LD50 Rate S5000 mg/kg. Carl 8h 2000 mg/kg. Sensitization           Not expected to be hazardous by OSHA cri				
Freezing point         Not available           Odor         Solvant.           PH         Not applicable           Physical state         Liquid.           Pressure         70 - 90 pag @ 70F           Solubility         Partially           Specific gravity         0.7193 estimated           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of achon. No hazardous decomposition products are known.           Component analysis - LD50         Toxicological Information           Acute LD50: 2886 mg/kg estimated, Rat, Demal Acute LD50 Rabit 3000 mg/kg.           Peroleum Diabias         64742-89-8           Propane         64742-49-8           Propane         64742-47-8           Partial D000 mg/kg         Inhalation L050 Rabit 3000 mg/kg.           Synthetic Isoparafinic         64742-47-8           Hobalano L050 Rabit 3000 mg/kg.         Jeemal LD50           Rabit -2000 mg/kg         Labit -2000 mg/kg.           Synthetic Isoparafinic         64742-47-8           Hobalanot L050 Rabit -3000 mg/kg	-			
Odor         Solvent.           pH         Not applicable           Physical state         Liquid.           Pressure         70 - 90 psig @ 70F           Solubility         Partially           Specific gravity         0.7193 estimated           Incompatible materials         Strong oxid/zing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Acute Effects         Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation           Component analysis - LD50         Toxicology Data - Selected LD50 s and LC50e Rat 2.18 mg/L 4 h; Oral LD50 Rats 5000 mg/kg. Dermal LD50 Rats 5000 mg/				
Physical state         Utquid.           Pressure         70 - 90 psig @ 70F           Solubility         Partially           Specific gravity         0.7193 astimated           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include exides of oxides of carbon. No hazardous decomposition products are known.           Incompatible materials         Acute LSD: 2886 mg/kg estimated, Rat, Dermal Acute LSD: 4 mg/44h estimated, Pat, DataBation Acute LSD: 6 mg/42 mg/42 memal LSD Ration Acute LSD: 6 mg/42 mg/44h estimated, Pat, DataBation Acute LSD: 6 mg/44h estimated, Pat, DataBation Acute LSD: 6 mg/42 mg/44h estimated, Pat, DataBation Acute LSD: 6 mg/44h estimated, Pat, DataAcute LSD: 6 mg/44h esta	• ·			
Physical state       Liquid.         Pressure       70 - 90 psj @ 70F         Solubility       Partially         Specific gravity       0.7193 estimated         Incompatible materials       Strong oxidizing agents.         Hazardous decomposition products       May include oxides of oxides of carbon. No hazardous decomposition products are known.         Incompatible materials       Strong oxidizing agents.         Hazardous decomposition products       Acute LD50: 2886 mg/kg estimated, Rat. Dermal Acute LD50: A mg/kh estimated, Rat. Dermal Acute LD50: A mg/kh estimated, Rat. Inhalation         Component analysis - LD50       Toxicology Data - Selected LD50s and LC50s         Toxicology Data - Selected LD50s and LC50s       Finhalation LC50 Rat 2.18 mg/L 4 h. Oral LD50 Rats 5000 mg/kg. Dermal LD50 Rats 5000 mg/kg. Rats 5000 mg/kg. Rats 50				
Pressure     70 - 90 psig @ 70F       Solubility     Partially       Specific gravity     0.7193 estimated       Incompatible materials     Strong oxidizing agents.       Hazardous decomposition products     May include oxides of oxides of carbon. No hazardous decomposition products are known.       Acute affects     Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LD50: 2886 mg/kg estimated, Rat, Inhalation       Component analysis - LD50     Toxicology Data - Selected LD50s and LC50s       Alphatic Petroleum Solvent     64742-89-8       Oral LD50 Mouse 5000 mg/kg. Dermal LD50 Ratio 2000 mg/kg. Dermal LD50 Ratio 2000 mg/kg.       Propane     74-96-6       Hobation LC50 Ratio 2000 mg/kg. Dermal LD50 Ratio 2000 mg/kg. Dermal LD50 Ratio 2000 mg/kg.       Pertoleum Distilize     64742-47-8       Inhalation LC50 Ratio 2000 mg/kg.       Sensitization     Not expected to be hazardous by OSHA criteria.       Tatogenicity     Not expected to be hazardous by OSHA criteria.       Contains a substance which causes thick duaga 72.00 Hours, LC50 480 mg/L estimated, Japan, 44.00 Hours, LC50 14696 mg/L estimated, Japan, 42.00 Hours, LC50 14696 mg/L estimated, Japan, 42.00 Hours, LC50 14696 mg/L estimated, Japan, 43.00 Hours, LC50 14696 mg/L estimated, Japan, 43.00 Hours, LC50 14696 mg/L estimated, Japan, 42.00 Hours, LC50 14696 mg/L estimated, Japan, 43.00 Hours, LC50 14696 mg/L estimated, Ja	•			
Solubility         Partially           Specific gravity         0.7193 estimated           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Acute effects         Acute LD50: 2886 mg/kg estimated, Rat, Dermal           Acute offects         Acute LC50: 4 mg/kg estimated, Rat, Dermal           Acute offects         64742-89-8           Toxicology Data - Selected D50s and LC500         Rabbit :2000 mg/kg: Dermal LD50 Rabbit :3000 mg/kg: Dermal LD50           Petroleum Distillate         64742-89-8         Oral LD50 Mouse 5000 mg/kg: Dermal LD50 Rat >5000 mg/kg: Dermal LD50           Propane         74-96-6         Inhalation LC50 Rat 2.18 mg/L 4 h. Oral LD50 Rat >5000 mg/kg: Dermal LD50           Sensitization         Not expected to be hazardous by OSHA criteria.           Teratogenicity         Not expected to be hazardous by OSHA criteria.           LC50 480 mg/L estimated, Algae, 72.00 Hours, LC50 Rat 2.500 mg/kg: Dermal LD50           LC50 14966 mg/L estimated, Algae, 72.00 Hours, LC50 Rat 2.500 mg/kg: Dermal LD50           LC50 14960 mg/L estimated, Algae, 72.00 Hours, LC50 Rat 2.500	•	-		
Specific gravity         0.7193 estimated           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           Incompatible materials         Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LD50: at mg/l4h estimated, Rat, Inhalation           Component analysis - LD50         Oral LD50 Mouse 5000 mg/kg. Dermal LD50 Rabbit 3000 mg/kg.           Perfoleum Distillate         64742-83-5           Propane         74-98-6           Propane         74-98-6           Synthetic toparafinic ef4742-47-8         Inhalation LC50 Rat 658 mg/L 4 h.           Hydrocarbon         84742-83-2000 mg/kg           Stratiszation         Not expected to be hazardous by OSHA criteria.           Teratogenicity         Not expected to be hazardous by OSHA criteria.           Ecotoxicity         LC50 480 mg/L estimated, Algae, 72.00 Hours, EC50 2568 mg/L estimated, Algae, 72.00 Hours, IC50 14969 mg/L estimated and its container to hazardous or special waste collection point, Do on tincincerate se				
10. Chemical Stability & Reactivity Information           Incompatible materials         Strong oxidizing agents.           Hazardous decomposition products         May include oxides of oxides of carbon. No hazardous decomposition products are known.           11. Toxicological Information           Acute effects         Acute LDSO: 2886 mg/kg estimated, Rat, Dermal Acute LCSO: 4 mg/l4h estimated, Rat, Inhalation           Component analysis - LD50           Toxicology Data - Selected LD50s and LCSOs           Aliphatic Perioleum Solven         64742-82-8         Oral LD50 Mouse 5000 mg/kg. Dermal LD50 Rabbit 3000 mg/kg           Perioleum Distillate         64742-82-8         Inhalation LCSO Rat -S mgL 4 h. Oral LD50 Rat >5000 mg/kg. Dermal LD50 Rabbit 2000 mg/kg           Propane         74-88-6         Inhalation LCSO Rat -S mgL 4 h. Oral LD50 Rat >5000 mg/kg. Dermal LD50 Rabbit 2000 mg/kg           Synthetic Isoparatfinic Rabbit 2000 mg/kg. Dermal LD50 Rat >5000 mg/kg. Dermal LD	•	•		
Incompatible materials Strong oxidizing agents. Hazardous decomposition products May include oxides of oxides of carbon. No hazardous decomposition products are known. Incompatible materials Strong oxidizing agents. May include oxides of oxides of carbon. No hazardous decomposition products are known. Incompatible materials Strong Oxides of oxides of carbon. No hazardous decomposition products are known. Acute effects Acute LD50: 2886 mg/kg estimated, Rat, Inhalation Component analysis - LD50 Toxicology Data - Selected LD50s and LD50s Aliphatic Petroleum Solvent 64742-89-8 Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg Propane 74-98-6 Inhalation LD50 Rat - Sto00 Mg/kg; Dermal LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit > 2000 mg/kg Sensitization Not expected to be hazardous by OSHA criteria. Inhalation LD50 Rat - S2 mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit > 2000 mg/kg Sensitization Not expected to be hazardous by OSHA criteria. Inhalation LD50 Rat = S2 mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit > 2000 mg/kg Sensitization Not expected to be hazardous by OSHA criteria. Inhalation LD50 Rat = S2 mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit > 2000 mg/kg Sensitization Not expected to be hazardous by OSHA criteria. Inhalation LD50 Rat = S2 mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit > 2000 mg/kg Sensitization Not expected to be hazardous by OSHA criteria. Inhalation LD50 Raterial and its container to hazardous or Special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA (gnitable waste, D001: Uspose in accordance with all applicable regulations. Internet of Transportation (DOT) Requirements Basic shipping requirements: Proper shipping name Consumer commodity Hazard class None Additional information: Packaging on bulk 156, 306 Packaging on bulk 156, 306				
Hazardous decomposition products       May include oxides of oxides of carbon. No hazardous decomposition products are known. <ul> <li>11. Toxicological Information</li> </ul> Acute effects <ul> <li>Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation</li> <li>Component analysis - LD50</li> </ul> Toxicology Data - Selected LD50s and LC50s         Aliphatic Petroleum Solvent         64742-849-8         Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg           Propane         74-98-6         Inhalation LC50 Rat - 52. mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit - 2000 mg/kg           Synthetic Isoparafinic         64742-47-8         Inhalation LC50 Rat - 52. mg/L 4 h; Oral LD50 Rat > 5000 mg/kg; Dermal LD50 Rabbit - 2000 mg/kg           Sensitization         Not expected to be hazardous by OSHA criteria.           Teratogenicity         Not expected to be hazardous by OSHA criteria.           Ecotoxicity         LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2688 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.           IDsposal Instructions         Do01: Waste Flammable material with a flash point <140 F           Disposal instructions         Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this protect an RCAA ignitable waste, D001. Dispose in accor	10.			
known.           11. Toxicological Information           Acute effects         Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation           Component analysis - LD50         Toxicology Data - Selected LD50s and LC50s           Aliphatic Petroleum Solvent         64742-89-8         Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg           Perroleum Distilate         64742-89-8         Oral LD50 Rate S8 mg/L 4 h; Cral LD50 Rate S8 mg/L 4 h; Synthetic Roparaffinic Hydrocaton         64742-47-8         Inhalation LC50 Rate S8 mg/L 4 h; Cral LD50 Rate S5.2 mg/L 4 h; Crate Rabbit -2000 mg/kg; Dermal LD50 Rabbit -2000 mg/kg; Dermal LD50 Rabbit -2000 mg/kg; Dermal LD50           Sensitization         Not expected to be hazardous by OSHA criteria.           Teratogenicity         Not expected to be hazardous by OSHA criteria.           Ecotoxicity         LC50 1480 mg/L estimated, Algae, 72.00 Hours, ECoto 2658 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.           Usigosal Instructions         Dool: Waste Flammable material with a flash point <140 F	Incompatible materials			
In troxicological Information           Acute effects         Acute LD50: 2886 mg/kg estimated, Rat, Dermal           Acute LC50: A mg/l4h estimated, Rat, Inhalation           Component analysis - LD50           Toxicology Data - Selected LD50s and LC50s           Aliphatic Petroleum Solution         64742-89-3         Oral LD50 Mouse 5000 mg/kg: Dermal LD50 Rabbit 3000 mg/kg           Petroleum Distillate         64742-89-3         Oral LD50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg         Dermal LD50           Propane         74-98-6         Inhalation LC50 Rat 5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50         Rabbit >2000 mg/kg           Synthetic Isoparafinic         64742-47-8         Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50           Residuation         Not expected to be hazardous by OSHA criteria.         Terratogenicity         Not expected to be hazardous by OSHA criteria.           Ecotoxicity         LC50 480 mg/L estimated, Daphnia, 48.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14896 mg/L estimated, Daphnia, 48.00 Hours, IC50 14896 mg/L estimated, Daphnia, 48.00 Hours, IC50 1496 mg/L es	Hazardous decomposition products			
Acute effects         Acute LD50: 2886 mg/kg estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation           Component analysis - LD50         Toxicology Data - Selected LD50s and LC50s           Aliphatic Petroleum Solvent Petroleum Distillate         64742-89-8 64742-82-8 inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rabbit 3000 mg/kg Propane         Oral LD50 Rate Selected LD50s and LC50s Rabbit 2000 mg/kg           Synthetic Isoparafinic Hydrocarbon         64742-87-8 Sensitization         Oral expected to be hazardous by OSHA criteria.           Teratogenicity         Not expected to be hazardous by OSHA criteria.           Ecotoxicity         LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Algae, 72.00 Hours, IC550 2668 mg/L estimated, Algae, 72.00 Hours, IC550 14696 mg/L estimated, Algae, 72.00 Hours, IC550 14596 mg/L estimated, Daphnia, 48.00 Hours, IC550 14596 mg/L estimated, Icage, 72.00 Hours, IC550 14596 mg/L estimated, Icage, 140 E		known.		
Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation         Component analysis - LD50         Toxicology Data - Selected LD50s and LC50s         Aliphatic Petroleum Distillate       64742-82-8         Petroleum Distillate       64742-82-8         Propane       74-98-6         Synthetic Isoparafilici       64742-47-8         Inhalation LC50 Rat 5.2 mg/L 4 h; Cral LD50 Rat >5000 mg/kg; Dermal LD50         Propane       74-98-6         Synthetic Isoparafilici       64742-47-8         Inhalation LC50 Rat 5.2 mg/L 4 h; Cral LD50 Rat >5000 mg/kg; Dermal LD50         Rabbit >2000 mg/kg       Propane         Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Ecotoxicity       LC50 4400 mg/L estimated, Fish, 96.00 Hours, ECS0 2568 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         13. Disposal Considerations       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements       Basic shipping requirements: Proper shipping name         Consumer commodity       Hazard class       ORM-D </th <th></th> <th>11. Toxicological Information</th>		11. Toxicological Information		
Toxicology Data - Selected LD50s and LC50s         Aliphatic Petroleum Solvent Petroleum Distillate       64742-98-5 64742-98-5 E4742-98-6       Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg         Propane Synthetic Isoparaffinic Hydrocarbon       74-98-6 64742-47-8 E4742-47-8       Inhalation LC50 Rat 55.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg         Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Ecotoxicity       LC50 480 mg/L estimated, Daphnia, 48.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Packaging exceptions	Acute effects			
Aliphatic Petroleum Solvent Petroleum Distilite       64742-89-8 64742-52-5 64742-52-5 64742-52-5 64742-52-5 64742-52-5 64742-52-5 64742-52-5 64742-52-5 7       Oral LD50 Nouse 5000 mg/kg; Dermal LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg         Propane Synthetic Isoparafinic Hydrocarbon       74-98-6 64742-47-8 64742-47-8 7       Inhalation LC50 Rat 55.000 mg/kg; Dermal LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg         Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Ecotoxicity       LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Algae, 72.00 Hours, IC50 14096 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Maste codes       D001: Waste Flammable material with a flash point <140 F Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements Basic shipping requirements: Proper shipping name Additional information: Packaging exceptions       Consumer commodity Hazard class None Additional information: Packaging non bulk       156, 306 156, 306	Component analysis - LD50			
Petroleum Distillate       64742:52-5       Inhalation LCSO Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50         Propane       74-98-6       Inhalation LCSO Rat 658 mg/L 4 h         Synthetic Isoparaffinic       64742:47-3       Inhalation LCSO Rat 52.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50         Hydrocarbon       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Ecotoxicity       LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, ICS0 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Maste codes       D001: Waste Flammable material with a flash point <140 F         Disposal instructions       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements       Basic shipping name         Additional information:       Proper shipping name         Proper shipping name       Consumer commodity         Adaging exceptions       156, 306         Packaging non bulk       156, 306	Toxicology Data - Selected LD50s a	nd LC50s		
Propane Synthetic Isoparaffinic Hydrocarbon       74-98-6 64742-47-8 Inhalation LC50 Rat 568 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbi >2000 mg/kg         Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Image: Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Image: Sensitization       13. Disposal Considerations         Waste codes       D001: Waste Flammable material with a flash point <140 F Contents under pressure. Dispose of this material and its containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements       Basic shipping requirements: Proper shipping name Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None Additional information:         Packaging exceptions       156, 306         Packaging non bulk       156, 306	•	742-52-5 Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50		
Synithetic Isoparaffinic Hydrocarbon       64742-47-8       Inhalation LCSO Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg         Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Image: Construction of the synthesis of th	Propage 74			
Sensitization       Not expected to be hazardous by OSHA criteria.         Teratogenicity       Not expected to be hazardous by OSHA criteria.         Image: Comparison of the problem of the	Synthetic Isoparaffinic 64	.742-47-8 Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50		
12. Ecological Information         Ecotoxicity         LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Maste codes         D001: Waste Flammable material with a flash point <140 F         Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements         Basic shipping name         Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Packaging exceptions         Packaging non bulk       156, 306	Sensitization			
Ecotoxicity       LC50 480 mg/L estimated, Fish, 96.00 Hours, EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Image: teal and	Teratogenicity	Not expected to be hazardous by OSHA criteria.		
EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Image: transmission of the environment of the environment of the environment of transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Packaging exceptions         Packaging non bulk       156, 306		12. Ecological Information		
EC50 2568 mg/L estimated, Daphnia, 48.00 Hours, IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.         Image: transmission of the environment of the environment of transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Packaging exceptions         156, 306       156, 306	Ecotoxicity	L C50.480 mg/L estimated Fish 96.00 Hours		
IC50 14696 mg/L estimated, Algae, 72.00 Hours, Contains a substance which causes risk of hazardous effects to the environment. <b>13. Disposal Considerations</b> Waste codes       D001: Waste Flammable material with a flash point <140 F         Disposal instructions       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations. <b>Department of Transportation (DOT) Requirements</b> Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Packaging exceptions         Packaging non bulk       156, 306	Ecoloxicity			
13. Disposal Considerations         Waste codes       D001: Waste Flammable material with a flash point <140 F		IC50 14696 mg/L estimated, Algae, 72.00 Hours,		
Waste codes       D001: Waste Flammable material with a flash point <140 F         Disposal instructions       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements       14. Transport Information         Basic shipping requirements:       Proper shipping name         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       156, 306         Packaging non bulk       156, 306		Contains a substance which causes risk of hazardous effects to the environment.		
Disposal instructions       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT)       tequirements         Basic shipping requirements:       Proper shipping name       Consumer commodity         Hazard class       ORM-D       None         Additional information:       Packaging exceptions       156, 306         Packaging non bulk       156, 306		13. Disposal Considerations		
Disposal instructions       Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements       14. Transport Information         Basic shipping requirements:       Proper shipping name       Consumer commodity         Hazard class       ORM-D       Subsidiary hazard class       None         Additional information:       Packaging exceptions       156, 306         Packaging non bulk       156, 306	Waste codes	D001: Waste Flammable material with a flash point <140 F		
special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.         Department of Transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       156, 306         Packaging non bulk       156, 306	Disposal instructions			
applicable regulations.         14. Transport Information         Department of Transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Formation         Packaging exceptions       156, 306         Packaging non bulk       156, 306		special waste collection point. Do not incinerate sealed containers. If discarded, this		
14. Transport Information         Department of Transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Formation         Packaging exceptions       156, 306         Packaging non bulk       156, 306				
Department of Transportation (DOT) Requirements         Basic shipping requirements:         Proper shipping name       Consumer commodity         Hazard class       ORM-D         Subsidiary hazard class       None         Additional information:       Visional         Packaging exceptions       156, 306         Packaging non bulk       156, 306				
Basic shipping requirements:Proper shipping nameConsumer commodityHazard classORM-DSubsidiary hazard classNoneAdditional information:IsonePackaging exceptions156, 306Packaging non bulk156, 306		14. Transport Information		
Proper shipping nameConsumer commodityHazard classORM-DSubsidiary hazard classNoneAdditional information:156, 306Packaging exceptions156, 306Packaging non bulk156, 306	• • • • •	Requirements		
Hazard classORM-DSubsidiary hazard classNoneAdditional information:Total statePackaging exceptions156, 306Packaging non bulk156, 306	Basic shipping requirements:			
Subsidiary hazard classNoneAdditional information:Packaging exceptions156, 306Packaging non bulk156, 306	Proper shipping name	-		
Additional information:Packaging exceptions156, 306Packaging non bulk156, 306	Hazard class	ORM-D		
Packaging exceptions156, 306Packaging non bulk156, 306	Subsidiary hazard class	None		
Packaging non bulk 156, 306	Additional information:			
	Packaging exceptions	156, 306		
	Packaging non bulk	156, 306		
		None		

Basic shipping requirement	5:	
Proper shipping name	AEROSOLS	
Hazard class	2.1	
UN number	1950	
Additional information:		
Packaging exceptions	LTD QTY	
ltem	5F	2
Labels required	None	
Transport Category	2	•
ΙΑΤΑ		
Basic shipping requirement	5:	
Proper shipping name	Aerosols, flammable	
Hazard class	2.1	
UN number	1950	~~~
Additional information:		
Packaging exceptions	LTD QTY	
Labels required	None	2
	15. Regulatory Information	on

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.		
Occupational Safety and Health			
29 CFR 1910.1200 hazardou chemical	s Yes		
CERCLA (Superfund) reportable	quantity		
None			
Superfund Amendments and Re	authorization Act of 1986 (SARA)		
Section 302 extremely hazardous substance	No		
Section 311 hazardous cher	nical Yes		
Hazard categories (311/312)	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No		
Inventory status			
Country(s) or region	Inventory name	On inventory (yes/no)*	
China	Inventory of Existing Chemical Substances in China (IECSC)	No	
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	Yes	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No	
Korea	Existing Chemicals List (ECL)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory Y		
A "Yes" indicates that all compon	ents of this product comply with the inventory requirements administered by	the governing country(s)	
State regulations			
U.S Pennsylvania - RTK (Rigł	nt to Know) List		
Aliphatic Petroleum Solvent	64742-89-8 Present		

Aliphatic Petroleum Solvent	64742-89-8	Present
Petroleum Distillate	64742-52-5	Present
Propane	74-98-6	Present
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	Present

IMDG

16. Other Information		
Further information	HMIS® is a registered trade and service mark of the NPCA.	
HMIS® ratings	Health: 1 Flammability: 3 Physical hazard: 0	
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.	
MSDS sections updated	Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Physical & Chemical Properties	
Prepared by	Regulatory Compliance	



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## MATERIAL SAFETY DATA SHEET

Health : 3 Flammability : 1 Reactivity : 0

MATERIAL Whizzer <sup>®</sup>	DATE ISSUED 04/17/08 - Rev. 03	UN-1903 Packing Group 3 DOT HAZARD CLASSIFICATION Class 8 PG II DOT SHIPPING NAME Disinfectant, Liquid, Corrosive
CAS NO. See Section I	SUPERCEDES	DOT LABEL Corrosive
	11/30/04 - Rev. 02	

## FORMULA Mixture CHEMICAL NAME Mixture

**************************************	*****	*****
	APPROXIMATE WEIGHT %	TWA/TLV
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride (CAS No. 68424-95-3)	6.51	None established
N-Alkyl(C12-16)dimethylbenzylammonium chloride (CAS No. 68424-85-1)	4.34	None established
Linear primary and/or secondary alcohol ethoxylates and/or nonylphenol (branched) ethoxylate	4.50	None established
Tetrasodium ethylenediamine tetraacetate (CAS No. 64-02-8)	2.66	None established
Sodium metasilicate (CAS No. 6834-92-0)	0.58	None established
Ethanol (CAS No. 64-17-5)	2.17	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Water (CAS No. 7732-18-5)	79.24	None established

## 

APPEARANCE Clear liquid VISCOSITY <100 cps @ 25°C BOILING POINT Not known VAPOR DENSITY (Air=1) Not known

PERCENT VOLATILE (by weight) 81.4 EVAPORATION RATE (Butyl Acetate=1) Not known pH 12.9 ODOR Varies with fragrance added (if any) MELTING OR FREEZING POINT Not known VAPOR PRESSURE (mm Hg) Not known SOLUBILITY IN WATER Soluble

**SPECIFIC GRAVITY (WATER = 1)**  $1.01 @ 25^{\circ}C$ 



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## 

FLASH POINT Not known LOWER EXPLOSION LIMIT (%) Not known EXTINGUISHING MEDIA FOAM ALCOHOL FOAM X CO2 X DRY CHEMICAL X WATER X OTHER AUTO IGNITION TEMPERATURE Not known UPPER EXPLOSION LIMIT (%) Not known

## **SPECIAL FIRE FIGHTING PROCEDURES:**

Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic

Products of combustion are toxic.

#### 

PRIMARY ROUTES OF ENTRY -	SKIN CONTACT $X$	EYE CONTACT X
	INHALATION X	INGESTION

## **EFFECTS OF OVEREXPOSURE**

Based upon available animal toxicity information, it is anticipated that this material will be corrosive to the skin and eyes upon direct or prolonged contact. Solvent vapors or mists of products can produce irritation of mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat, and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. May be fatal.

Exposure to ethyl alcohol concentrations of over 1,000 ppm may cause headache, irritation of the eyes, nose and throat, and, if long continued, drowsiness and lassitude, loss of appetite and inability to concentrate.

## OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:

No effects indicated.

## EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.

Skin: Wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person. Get immediate medical attention.

Inhalation: Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.



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CHEMICALS LISTED AS CARCINOGEN BY: (YES OR NO)

NATIONAL TOXICOLOGY PROGRAM - No I.A.R.C. MONOGRAPHS - No OSHA - No

STABILITY:	STABLE X	CONDITIONS TO AVOID	
	UNSTABLE	None known	

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION MAY WILL NOT X OCCUR OCCUR CONDITIONS TO AVOID None known

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER OTHER None known

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Danger! Corrosive material. Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

## WASTE DISPOSAL METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

## **CONTAINER DISPOSAL**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## **ENGINEERING CONTROLS**

In processes where TLV may be exceeded, or mists and/or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.



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## **RESPIRATORY PROTECTION**

Where mist or vapors are generated by the process or if recommended TWA/TLV for ethyl alcohol is exceeded, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

## **PROTECTIVE GLOVES**

Rubber or neoprene, when needed, to prevent skin contact.

## EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

#### **OTHER PROTECTIVE EQUIPMENT**

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

#### PRECAUTIONS FOR STORAGE AND HANDLING:

Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

#### 

- oral LD50 (rat): 1650 mg/kg
- dermal LD50 (rabbit): 1870 mg/kg
- skin irritation (rabbit): severe irritant (primary irritation index = 8.0)
- eye irritation (rabbit): severe irritant (primary irritation index = 110)
  - skin corrosion (DOT method rabbit): corrosive

#### NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

#### FEDERAL LEVEL REGULATIONS:

This is an EPA registered pesticide (EPA Registration No. 6836-77). This material can only be used commercially in the EPA registered application(s) noted on the product label.

#### TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

All components are currently listed on the U.S. EPA TSCA 8 (b) inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 1 -800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:



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Chemical Name None known	CAS Number	Typical Maximum <u>Concentration</u>	
SARA Title III, Sections 302/304 (Superfund Amendments a act requires emergency planning, including agency notificat following components of this material, based upon the Thr and release Reportable Quantities (RQs) listed for the Com	ation, for possible rel eshhold Planning Qu	ease of the antities (TPQs)	
		Typical Maximum	
Chemical Name	CAS Number	<b>Concentration</b>	
None known SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:			
-		Hazard *)	
Chemical Name	CAS Number	Categories	
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride	68424-95-3	А	
N-Alkyl(C12-16)dimethylbenzylammonium chloride	68424-85-1	А	
Ethanol	64-17-5	F	
Linear primary and/or secondary alcohol	Depends upon	А	

ethoxylates and/or nonylphenol (branched) ethoxylate

\*) The five hazard categories are as follows: F=FIRE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

ethoxylate type

SARA Title 313 - This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

Chemical Name	CAS Number	Concentration
None known		

#### STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows: Typical Maximum

Chemical Name	CAS Number	Concentration
Acetaldehyde	75-07-0	800 ppb
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	25 ppm
1,4-Dioxane	123-91-1	800 ppb
Ethylene oxide	75-21-8	80 ppb
N-Nitrosodimethylamine	62-75-9	100 ppb
Propylene oxide	75-56-9	3 ppm
Toluene	108-88-3	25 ppm

Typical Maximum



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MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

Chemical Name	CAS Number	Concentration
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	25 ppm
Propylene oxide	75-56-9	3 ppm

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List: Chemical Name None known

NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

	•	Typical Maximum
Chemical Name	CAS Number	Concentration
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride	68424-95-3	6.5%
N-Alkyl(C12-16)-N,N-dimethylbenzylammonium chloride	86424-85-1	4.3%
Ethanol	64-17-5	2.2%

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

<b>Chemical</b>	Name
Ethanol	

CAS Number 64-17-5 Typical Maximum Concentration 2.2%

## WILSON IMPERIAL CO -- WIL-BOND, 3606 -- 8010-00N057689

Product ID:WIL-BOND, 3606 MSDS Date:10/20/1993 FSC:8010 NIIN:00N057689 MSDS Number: BWRTN === Responsible Party === Company Name: WILSON IMPERIAL CO Address:115 CHESTNUT ST City:NEWARK State:NJ ZIP:07105 Country:US Info Phone Num:201-589-6050 Emergency Phone Num: 201-589-6050; 800-424-9300 (CHEMTREC) CAGE:25585 === Contractor Identification === Company Name: WILSON IMPERIAL CO Address:115 CHESTNUT ST Box:City:NEWARK State:NJ ZIP:07105 Country:US Phone: 201-589-6050 CAGE:25585 Ingred Name: TOLUENE (SARA 313) (CERCLA). VP:25 @ 25C CAS:108-88-3 RTECS #:XS5250000 Fraction by Wt: 70-75% OSHA PEL:200 PPM ACGIH TLV:50 PPM, S EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: ISOPROPYL ALCOHOL (SARA 313). VP:32.8 @ 20C. CAS:67-63-0 RTECS #:NT8050000 Fraction by Wt: 10-20% OSHA PEL:400 PPM ACGIH TLV:400 PPM;500 STEL Ingred Name: ACETONE (SARA 313) (CERCLA). VP:180 @ 20C. CAS:67-64-1 RTECS #:AL3150000 Fraction by Wt: 5-10% OSHA PEL:1000 PPM ACGIH TLV:750 PPM;1000 STEL EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name:LIGROINE; (VM&P NAPHTHA). VP:97.3 @ 20C. (SUBSTITUTION MAY OCCUR W/INGS 5 OR 6) CAS:8032-32-4

file://jimepicpc/Users/Public/Epic%20Environmental%20Services%20(USE)/Product%20... 6/7/2016

RTECS #:016180000 Fraction by Wt: <5% OSHA PEL:300 PPM ACGIH TLV:300 PPM Ingred Name:LACOLENE; (SOLVENT NAPHTHA) CAS: 64742-89-8 OSHA PEL:N/K ACGIH TLV:N/K Ingred Name: HYDROCARBONS, C7-9; (SOLVENT NAPHTHA) CAS:68920-06-9 OSHA PEL:N/K ACGIH TLV:N/K Ingred Name: METHYL ALCOHOL; (METHANOL) (SARA 313) (CERCLA). VP:97.3 @ 20C. CAS:67-56-1 RTECS #:PC1400000 Fraction by Wt: <3.5% OSHA PEL:200 PPM, S ACGIH TLV:200 PPM;250 STEL, S EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name:XYLENE (SARA 313) (CERCLA). VP:25 @ 25C. CAS:1330-20-7 RTECS #: ZE2100000 Fraction by Wt: <2% OSHA PEL:100 PPM ACGIH TLV:100 PPM;150 STEL EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: ACETIC ACID, BUTYL ESTER; (BUTYL ACETATE) (CERCLA). VP:8.4 @ 20C. CAS:123-86-4 RTECS #:AF7350000 Fraction by Wt: <2% OSHA PEL:150 PPM ACGIH TLV:150 PPM;200 STEL EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: OTHER PROT EQUIP: FOR REPEATED & PROLONGED USE OF THIS PRODUCT. RTECS #:9999992Z LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: VAP & LIQ ARE EYE & SKIN IRRITS. BRTHG EXCESSIVE QTYS OF VAP MAY CAUSE DIZZ, HDCH, NAUS & OTHER CENTRAL NERV EFTS & MAY BE FATAL. PRLNG & RPTD INHAL OF VAPS MAY CAUSE KIDNEY/LIVER DMG. RPTS HAVE ASSOC RPTD & PRLNG OCCUP OVEREXP TO SOLVS W/BRAIN & NERV SYS DMG. INTENTIONAL MISUSE BY DELIB CONCENTRATING (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:& INHALING CONTENTS MAY BE HARMFUL/FATAL. NOTE:TOLUENE APPEARS ON NAVY LIST OF OCCUP CHEM REPRO HAZS. SEEK CONSULTATION FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST INFO & SAFE H NDLG & EXPOS INFO . Medical Cond Aggravated by Exposure:THOSE HAVING RESPIRATORY OR HEART CONDITIONS SHOULD EXERCISE DUE CAUTION USING THIS PRODUCT. SKIN CONTACT MAY AGGRAVATE EXISTING DERMATITIS.

First Aid:INHAL:REMOVE VICTIM TO FRESH AIR & RESTORE BRTHG IF NEC. GET EMER ASSISTANCE IMMED. FOR EYE CONT, FLUSH IMMED W/LG AMTS OF WATER FOR AT LST 15 MINS. TAKE TO MD FOR MED TREATMENT. SKIN:WASH AFFECTED AR EAS W/SOAP & WATER. REMOVE & LAUNDER CONTAM CLTHG BEFORE REUSE. CONSULT MD IF IRRIT PERSISTS. INGEST:DO NOT INDUCE VOMITING. CALL MD IMMEDIATELY.

Flash Point Method:TCC

Flash Point:29.0F,-1.7C

Lower Limits:1.2%

Extinguishing Media:DRY CHEMICAL.

- Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP . CNTNRS EXPOS TO INTENSE HEAT, SHOULD BE COOLED W/WATER TO PVNT VAP PRESS BUILD-UP, WHICH COULD RSLT(SUPDAT)
- Unusual Fire/Explosion Hazard: KEEP CONTAINER TIGHTLY CLOSED. ISOLATE FROM HEAT, PILOT LIGHTS, ELECTRICAL EQUIPMENT, SPARKS & OPEN FLAME.

Spill Release Procedures:KEEP ALL SOURCES OF IGNIT & HOT SURFS AWAY
FROM SPILL. FOR SM SPILL FLUSH W/WATER. FOR LG SPILL, USE SAND,
EARTH/OTHER SUITABLE ABSORB MATL. IF SPILL IS INDOORS, OPEN ALL
WINDOWS & DOORS, VENTILATE AR EA OF SPILL. REPORT SPILL TO APPROP
FED, (SUPDAT)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN COOL, DRY PLACE W/CONTAINER PROPERLY SEALED. KEEP AWAY FROM HEAT, SPARKS, PILOT LIGHTS, ELECTRIC OUTLETS & OPEN FLAME.

Other Precautions:DO NOT MIX W/OTHER MATERIALS, OTHER THAN AS RECOMMENDED IN LABEL INSTRUCTIONS. KEEP OUT OF REACH OF CHILDREN.

Respiratory Protection:NIOSH/MSHA APPROVED CHEMICAL CARTRIDGE RESPIRATOR FOR SOLVENT VAPORS (TC-23-C OR EQUIVALENT).

- Ventilation: IF CURRENT VENT PRACTICES ARE NOT ADEQ TO MAINTAIN VAP CONCS BELOW ESTABLISHED EXPOS LIMS, ADDNL LOC EXHST VENT (SUPDAT)
- Protective Gloves:SOLVENT RESISTANT GLOVES.
- Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS .

Other Protective Equipment:EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA . USE SOLV RESIST APRON/IMPERVIOUS CLTHG(ING 10)

Work Hygienic Practices:WASH HANDS BEFORE EATING OR USING RESTROOM. Supplemental Safety and Health

FIRE FIGHT PROC:IN CNTNR RUPTURE. SPILL PROC:STATE/LOC AUTHS & REQUEST

ASSISTANCE IF NEEDED. BEFORE ATTEMPTING TO CLEAN UP REFER TO HAZ INFO IN OTHER SECTIONS OF THIS MSDS. VENT:CAPABLE OF MAINTAINING VAP LEVELS BELOW REC EXPOS LIMS MAY BEREQD. USE EXPLO-PROOF, NON-SPARKING EQUIP.

Boiling Pt:B.P. Text:>131F,>55C Vapor Pres:SEE INGS Vapor Density:HVR/AIR Spec Gravity:0.84 Evaporation Rate & Reference:SLOWER THAN ETHER Appearance and Odor:NONE SPECIFIED BY MANUFACTURER. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:HEAT, SPARKS, PILOT LIGHTS, STATIC
ELECTRICITY & FLAME. DO NOT USE IN CONFINED SPACES.
Hazardous Decomposition Products:CARBON MONOXIDE & OTHER ORGANIC
COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Waste Disposal Methods:SEAL IN CLOSED METAL CONTAINER & DISPOSE OF I/A/W LOCAL, STATE & FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

## SAFETY DATA SHEET



Date Issued : 10/4/2013 SDS No : WI-00710

## 1. PRODUCT AND COMPANY IDENTIFICATION

**GENERAL USE:** Polish cast iron stoves **PRODUCT CODE:** WI-00710

### MANUFACTURER

Rutland Products 7 Crabtree Rd. Jacksonville, IL 62650 Alternate Emergency Phone: 217-245-7810 Customer Service: 800-544-1307 E-Mail: sales@rutland.com

## 24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800-5553 CHEMTREC (US Transportation) : (800) 424-9300

## 2. HAZARDS IDENTIFICATION

#### GHS LABEL



SIGNAL WORD: WARNING

## HAZARD STATEMENTS

H320: Causes eye irritation. H315: Causes skin irritation. H303: May be harmful if swallowed.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Carbon Black		1333-86-4
Graphite (natural)		7782-42-5
Octadecanoic Acid		57-11-4
Alcohols, C16-18		67762-27-0
Ethanol, 2, 2', 2"-nitrilotris		102-71-6

#### 4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation SKIN: Irritation, rash. INGESTION: Not yet Known

## 5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NA = Not Applicable EXPLOSION HAZARDS: NA = Not Applicable

#### 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spilled material and place in appropriate container for disposal.

#### 7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

STORAGE: Store in a tightly closed container.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields. Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent) are recommended.

**SKIN:** Wear protective clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.

**RESPIRATORY:** Good general ventilation should be sufficient to control airborne levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild waxy odor. COLOR: Black PHYSICAL STATE COMMENTS: Paste FLAMMABLE LIMITS: 0 to 0 SOLUBILITY IN WATER: Soluble SPECIFIC GRAVITY: 1

## **10. STABILITY AND REACTIVITY**

STABLE: Yes HAZARDOUS DECOMPOSITION PRODUCTS: Not yet Known INCOMPATIBLE MATERIALS: Strong acids, bases, and oxidizers

### **11. TOXICOLOGICAL INFORMATION**

EYE EFFECTS: Acute eye irritant

SKIN EFFECTS: Skin irritant

CHRONIC: Not yet Known

### CARCINOGENICITY

Notes: Not Established

### **12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials and operators of nearby water intakes in accordance with local, state and federal regulations.

#### **13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: Dispose of this product in accordance with all applicable local, state and federal regulations.

#### 14. TRANSPORT INFORMATION

## DOT (DEPARTMENT OF TRANSPORTATION)

OTHER SHIPPING INFORMATION: Not Regulated

ROAD AND RAIL (ADR/RID): Not regulated

AIR (ICAO/IATA): Not regulated

VESSEL (IMO/IMDG): Not regulated

#### **15. REGULATORY INFORMATION**

### UNITED STATES

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

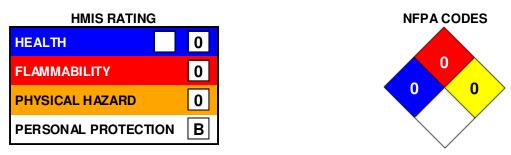
Chemical Name	CAS
Carbon Black	1333-86-4
Graphite (natural)	7782-42-5
Octadecanoic Acid	57-11-4
Alcohols, C16-18	67762-27-0
Ethanol, 2, 2', 2"-nitrilotris	102-71-6

## **CALIFORNIA PROPOSITION 65**

Chemical Name	Vol. %	Listed
Carbon Black		Cancer

#### **16. OTHER INFORMATION**

#### PREPARED BY: Chad Stewart



**MANUFACTURER DISCLAIMER:** The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

Revision Date 08/25/2008

Print Date 04/23/2009

MSDS Number 350000004960

## **1. PRODUCT AND COMPANY IDENTIFICATION**

#### **Product information**

Trade name	:	WINDEX® ANTIBACTERIAL DISINFECTANT MULTI- SURFACE CLEANER
Use of the Substance/Preparation	:	Disinfectant
Company	:	
		1 Webster Street
		Brantford ON N3T 5R1
Emergency telephone	:	24 Hour Transport & Medical Emergency Phone (866) 231- 5406
		24 Hour International Emergency Phone (952) 852-4647
		24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

## 2. HAZARDS IDENTIFICATION

Emergency Overview Appearance / Odor	:	clear / liquid / characteristic
Immediate Concerns	:	Caution Avoid contact with skin, eyes and clothing.
Potential Health Effects Routes of exposure	:	Eye, Skin, Inhalation, Ingestion.
Eyes	:	May cause: Mild eye irritation
Skin	:	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation	:	None known.
Ingestion	:	None known.
Aggravated Medical Condition	:	None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Deionized Water	7732-18-5	60.00 - 100.00
Isopropanol	67-63-0	1.00 - 5.00
Ethyleneglycol	112-25-4	0.10 - 1.00

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

Print Date 04/23/2009

Revision Date 08/25/2008

MSDS Number 35000004960

Monohexylether Lactic Acid 7	9-33-4	0.18		
	9-33-4	0.18		
FIRST AID MEASURES				
Eye contact		immediately with plenty of water for at least 15 to 20 es. Get medical attention if irritation develops and is.		
Skin contact	: Wash	off with soap and water.		
Inhalation	: Remo attenti	ve to fresh air. If breathing is affected, get medical on.		
Ingestion	by me anythi	If swallowed, DO NOT induce vomiting unless directed to do by medical personnel. Drink 1 or 2 glasses of water. Never g anything by mouth to an unconscious person. Get medical attention immediately.		
FIRE-FIGHTING MEASURES Suitable extinguishing	: Alcoho	ol foam, carbon dioxide, dry chemical, water fog		
media				
Specific hazards during fire fighting	: Conta	ner may melt and leak in heat of fire.		
Further information	an aqu sustaii Wear t	gh this product has a flash point below 200 Deg F, it is leous solution containing an alcohol and does not n combustion. Standard procedure for chemical fires. full protective clothing and positive pressure self- ned breathing apparatus.		
Flash point	: 124 °F Metho	d: Tag Closed Cup (TCC)		
Flash point	: 51 °C Metho	d: Tag Closed Cup (TCC)		
Upper explosion limit	: Note:	no data available		
ACCIDENTAL RELEASE MEA	SURES			
Personal precautions	: Remo	ve all sources of ignition.		
Methods for cleaning up	· Soaki	up with inert absorbent material.		

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

Revision Date 08/25/2008

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Sweep up and shovel into suitable containers for disposal. Dike large spills.

## 7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	KEEP OUT OF REACH OF CHILDREN AND PETS. Use only as directed.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition.
Storage		

Requirements for storage areas and containers	:	Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.
		Do not freeze.

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

Revision Date 08/25/2008

Print Date 04/23/2009

MSDS Number 350000004960

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational Exposure Limits**

Basis	ppm	mg/m3	CAS-No.	Components
ACGIH_STEL	400 ppm		67-63-0	Isopropanol
ACGIH_TWAS	200 ppm			
CA-AB_STEL	500 ppm	1,230 mg/m3		
CA-AB_TWAS	400 ppm	983 mg/m3		
CA-BC_STEL	400 ppm			
CA-BC_TWAS	200 ppm			
CA-NB_STEL	500 ppm	1,230 mg/m3		
CA-NB_TWAS	400 ppm	983 mg/m3		
CA-NS_STEL	400 ppm			
CA-NS_TWAS	200 ppm			
CA-NT_STEL	500 ppm	1,228 mg/m3		
CA-NT_TWAS	400 ppm	983 mg/m3		
CA-NU_STEL	500 ppm	1,228 mg/m3		
CA-NU_TWAS	400 ppm	983 mg/m3		
CA-ON_STEV	400 ppm			
CA-ON_TWAE	200 ppm			
CA-QC_STEV	500 ppm	1,230 mg/m3		
CA-YK_STEL	500 ppm	1,225 mg/m3		
CA-YK_TWAS	400 ppm	980 mg/m3		
NIOSH_STEL	500 ppm	1,225 mg/m3		
	1			
_		4/9		

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

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Revision Date 08/25/2008

MSDS Number 35000004960

980 mg/m3	3 400 ppm NIOSH_TWAS
	400 ppm CA-MB_STEL
	200 ppm CA-MB_TWAS
983 mg/m3	3 400 ppm CA-QC_TWAE
	400 ppm CA-SK_STEL
	200 ppm CA-SK_TWAS
983 mg/m3	3 400 ppm GCC_OELTWA
	2,000 ppm NIOSH_IDLH

## Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection	:	not required under normal use
Eye protection	:	No special requirements.
Hygiene measures	:	Use only with adequate ventilation. Wash thoroughly after handling. Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection. Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid
Color	:	clear
Odor	:	characteristic
рН	:	2.3 - 3.3
Boiling point	:	no data available
Flash point	:	124 °F Method: Tag Closed Cup (TCC)
Flash point	:	51 °C Method: Tag Closed Cup (TCC)
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according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

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Evaporation rate	: no data available
Autoignition temperature	: no data available
Upper explosion limit	: no data available
Vapour pressure	: similar to water
Water solubility	: completely soluble
Partition coefficient: n- octanol/water	: no data available

## 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Do not mix with oxidizing agents. Do not mix with bleach or any other household cleaners.
Hazardous decomposition products	:	When exposed to fire, produces normal products of combustion.
Hazardous reactions	:	Stable

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: > 5,000 mg/kg
Acute inhalation toxicity	: LC50 rat Dose: > 5.59 mg/l
Acute dermal toxicity	: LD50 rabbit Dose: > 5,000 mg/kg no data available
Chronic effects Carcinogenicity	: no data available
Mutagenicity	: no data available
Reproductive effects	: no data available
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according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



WINDEX® ANTIBACT CLEANER	ERIAL DISINFECTANT MULTI-SURFACE
Version 1.	Print Date 04/23/2009
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Tarataganisity	: no data available
Teratogenicity	: no data available
Sensitisation	: no data available
12. ECOLOGICAL INFORMAT	ION
Ecotoxicity effects	: Not Available
13. DISPOSAL CONSIDERATI	ONS
Product	: Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
<ul> <li>14. TRANSPORT INFORMATION</li> <li>Land transport         <ul> <li>U.S. DOT and Canadi</li> <li>NA number</li> <li>Proper shipping name</li> <li>Class:</li> <li>Packaging group:</li> </ul> </li> </ul>	<b>an TDG Surface Transportation:</b> 1993 Combustible Liquid, N.O.S. Combustible liquid III
Note:	SC Johnson ships this product as "Non-Regulated" per DOT exception for Combustible Liquids. (49 CFR 173.150)
Sea transport	
<ul> <li>IMDG: UN-Number: Packaging group: Proper shipping name Class:</li> </ul>	None. None. not regulated None.
Air transport	
<ul> <li>ICAO/IATA: Class: Packaging group: Proper shipping name UN/ID No.:</li> </ul>	None. None. not regulated None.
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according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

Revision Date 08/25/2008

Print Date 04/23/2009

MSDS Number 35000004960

15. REGULATORY INFORMAT	ION
Global Chemical Inventor	ies
Notification status	: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
	: All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.
	: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
EPA Registration Number	: 4822-549
6. OTHER INFORMATION	
HMIS Ratings	
Health	1
Flammability	2
Reactivity	0
NFPA Ratings	,
Health	1
Fire	2
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according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® ANTIBACTERIAL DISINFECTANT MULTI-SURFACE CLEANER

Version 1.

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MSDS Number 35000004960

Reactivity

0

Special

## Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

Product information		
Trade name	:	WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER
Use of the Substance/Mixture	:	Disinfectant
Company	:	S.C. Johnson and Son, Limited 1 Webster Street Brantford ON N3T 5R1
Emergency telephone	:	24 Hour Transport & Medical Emergency Phone (866) 231- 5406
number		24 Hour International Emergency Phone (952) 852-4647 24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666
AZARDS IDENTIFICATIO	N	
E <b>mergency Overview</b> Appearance / Odor	:	clear / liquid / characteristic
mmediate Concerns	:	Caution Avoid contact with skin, eyes and clothing.
Potential Health Effects	:	Eye, Skin, Inhalation, Ingestion.
Exposure routes		May cause:
Exposure routes Eyes	·	Mild eye irritation
	:	
Eyes	:	
Eyes Skin	· : :	Prolonged or repeated contact may dry skin and cause irritatio

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

MSDS Number 35000004960 SITE\_FORM Number 300000000000004266.001

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Chemical Name	CAS-No.	Weight percent
Isopropanol	67-63-0	1.00 - 5.00
Ethyleneglycol Monohexylether	112-25-4	1.00 - 5.00
Lactic Acid	79-33-4	0.10 - 1.00

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

. FIRST AID MEASURES		
Eye contact	:	Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
Skin contact	:	Wash off with soap and water.
Inhalation	:	Remove to fresh air. If breathing is affected, get medical attention.
Ingestion	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting	:	Container may melt and leak in heat of fire.
Further information	:	Cool and use caution when approaching or handling fire- exposed containers. Wear full protective clothing and positive
		pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Although this product has a flash point below 200 Deg F, it is an aqueous solution

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

		containing an alcohol and does not sustain combustion.
Flash point	:	51 °C 123.8 °F Method: Tag Closed Cup (TCC)
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: no data available
CCIDENTAL RELEASE MEA	SU	RES
Personal precautions	:	Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Wear personal protective equipment.
Environmental precautions	:	Outside of normal use, avoid release to the environment.
Methods for cleaning up	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Use only non-sparking equipment. Dike large spills. Clean residue from spill site.
IANDLING AND STORAGE		
Handling		
Advice on safe handling	:	Use only as directed. KEEP OUT OF REACH OF CHILDREN AND PETS.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charg
Storage		
Requirements for storage	:	Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

MSDS Number 35000004960 SITE\_FORM Number 300000000000004266.001

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Occupational Exposure Limits

Components	CAS	-No		mg/m3	ppm	Non- standard units	Basis
Isopropanol	67-6	3-0		-	400 ppm	-	ACGIH STEL
Isopropanol	67-6	3-0		-	200 ppm	-	ACGIH TWA
Personal protective e	quipme	ent					
Respiratory protection	n						
Industrial s	setting	:		personal respira uired.	tory protective e	quipment no	rmally
Household	setting	:	Use	e only with adequ	uate ventilation.		
Hand protection		:	No	special requirem	nents.		
Eye protection							
Industrial s	setting	:	No	special requirem	nents.		
Household s	setting	:	Avo	oid contact with e	eyes.		
Skin and body protec	tion	:	No	special requirem	nents.		
Hygiene measures		:		ndle in accordan ctice. Wash thor			ne and safety

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid
Color	:	clear
Odor	:	characteristic
рН	:	2.3 - 3.3

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

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Acute oral toxicity	:	LD50
. TOXICOLOGICAL INFORMAT	101	Ν
Hazardous reactions	:	Stable under recommended storage conditions.
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.
Materials to avoid	•	Strong oxidizing agents Do not mix with bleach or any other household cleaners.
Conditions to avoid	:	Heat, flames and sparks.
. STABILITY AND REACTIVITY	,	
Volatile Organic Compounds Total VOC (wt. %)*	:	3 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
Partition coefficient: n- octanol/water	:	no data available
Water solubility	:	completely soluble
Density	:	0.996 g/cm3
Vapour pressure	:	similar to water
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Autoignition temperature	:	no data available
Evaporation rate	:	no data available
Flash point	:	51 °C 123.8 °F Method: Tag Closed Cup (TCC)
Freezing point	:	no data available
Boiling point	•	no data available

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

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		estimated > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 estimated > 5.59 mg/l
Acute dermal toxicity	:	LD50 estimated > 5,000 mg/kg
Chronic effects Carcinogenicity	:	no data available
Mutagenicity	:	no data available
Reproductive effects	:	no data available
Teratogenicity	:	no data available
Sensitisation	:	Not known to be a sensitizer.
12. ECOLOGICAL INFORMATIO	DN	
Ecotoxicity effects	:	no data available
13. DISPOSAL CONSIDERATIO	NS	
		Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal. Consumer may discard empty container in trash, or recycle where facilities exist.
RCRA waste class	:	D001 (Ignitable Waste)
14. TRANSPORT INFORMATION	N	
Land transport		
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according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

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Proper shipping name	ian TDG Surface Transportation: Combustible Liquid, N.O.S.		
Class:	3		
NA number	1993		
Packaging group:	III SC Jahreen shine this product on "Nen Desulated" ner TDC and		
Note:	SC Johnson ships this product as "Non-Regulated" per TDG and per DOT exception for Combustible Liquids. (49 CFR 173.150)		
Sea transport			
IMDG:			
Proper shipping name Class:	not regulated None.		
UN/ID No.:	None.		
Packaging group	None.		
Air transport			
<ul> <li>ICAO/IATA:</li> </ul>			
Proper shipping name Class:	not regulated None		
UN/ID No.:	None.		
Packaging group	None.		
REGULATORY INFORMA	ΓΙΟΝ		
Notification status	: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.		
Notification status	<ul> <li>All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).</li> </ul>		
California Prop. 65	: This product does not contain any chemicals known to State o		
	California to cause cancer, birth defects, or any other reproductive harm.		
Canada Regulations	: This product has been classified in accordance with hazard		
·	criteria of the Controlled Products Regulations and the MSDS		
	contains all the information required by the Controlled Product Regulations.		
OTHER INFORMATION			
HMIS Ratings	1		

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## WINDEX® MULTI-SURFACE ANTIBACTERIAL DISINFECTANT CLEANER

Version 2.0

Revision Date 08/24/2011

Print Date 08/24/2011

MSDS Number 35000004960 SITE\_FORM Number 300000000000004266.001

Flammability	2	1
Reactivity	0	

## NFPA Ratings

Health	1	
Fire	2	
Reactivity	0	
Special	-	

## Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

Version 1.1

Revision Date 12/03/2008

Print Date 01/19/2009

MSDS Number 35000004965

## 1. PRODUCT AND COMPANY IDENTIFICATION

## **Product information**

Trade name	: WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER	
Use of the Substance/Preparation	: Speciality Cleaner	
Company	: S.C. Johnson & Son, Inc. 1525 Howe Street Racine WI 53403-2236	
Emergency telephone	<ul> <li>24 Hour Transport &amp; Medical Emergency Phone (866) 231- 5406</li> <li>24 Hour International Emergency Phone (952) 852-4647</li> </ul>	

## 2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b> Appearance / Odor	:	clear / liquid / characteristic
Immediate Concerns	:	Caution CAUSES EYE IRRITATION. Avoid contact with skin, eyes and clothing.
Potential Health Effects		
Routes of exposure	:	Eye, Skin, Inhalation, Ingestion.
Eyes	:	May cause: Moderate eye irritation
Skin	:	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation	:	May cause nose, throat, and lung irritation.
Ingestion	:	May cause: Abdominal discomfort.
Aggravated Medical Condition	:	Persons with pre-existing skin disorders may be more susceptible to irritating effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	60.00 - 100.00
Ethoxylated iso-decanol	61827-42-7	1.00 - 5.00

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

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Sodium xylene sulfonate	1300-72-7	1.00 - 5.00
Trisodium citrate	68-04-2	1.00 - 5.00
Sodium carbonate	497-19-8	1.00 - 5.00

# 4. FIRST AID MEASURES

Eye contact	: Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
Skin contact	: Wash off with soap and water. Get medical attention if irritation develops and persists.
Inhalation	: Remove to fresh air. If breathing is affected, get medical attention.
Ingestion	: Drink 1 or 2 glasses of water. Get medical attention immediately. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	:	Alcohol foam, carbon dioxide, dry chemical, water fog
Specific hazards during fire fighting	:	Container may melt and leak in heat of fire.
Further information	:	Standard procedure for chemical fires.
Flash point	:	Note: does not flash
Lower explosion limit	:	Note: no data available

Upper explosion limit : N	Note: no data available
---------------------------	-------------------------

# 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Soak up with inert absorbent material.
		Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

Handling

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

Print Date 01/19/2009 MSDS Number 350000004965 directed. t with skin, eyes and clothing. DF REACH OF CHILDREN AND PETS. FREACH OF CHILDREN AND PETS. er closed when not in use. t, cool and well-ventilated place. <b>TION</b> the established for this product or reportable
directed. t with skin, eyes and clothing. DF REACH OF CHILDREN AND PETS. er closed when not in use. r, cool and well-ventilated place. <b>TTON</b> In established for this product or reportable
t with skin, eyes and clothing. DF REACH OF CHILDREN AND PETS. er closed when not in use. r, cool and well-ventilated place.
r, cool and well-ventilated place.
r, cool and well-ventilated place.
n established for this product or reportable respiratory protective equipment normally
respiratory protective equipment normally
respiratory protective equipment normally
respiratory protective equipment normally
under normal use
under normal use
or repeated contact is possible: ses with side-shields
equirements.
th adequate ventilation. Wash thoroughly after

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

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MSDS Number 35000004965

Color	:	clear	
Odor	:	characteristic	
рН	:	10 - 11	
Melting point	:	no data available	
Boiling point	:	no data available	
Freezing point	:	no data available	
Flash point	:	does not flash	
Evaporation rate	:	no data available	
Autoignition temperature	:	no data available	
Lower explosion limit	:	no data available	
Upper explosion limit	:	no data available	
Vapour pressure	:	no data available	
Water solubility	:	completely soluble	
Partition coefficient: n- octanol/water	:	no data available	
Specific Gravity	:	1.04	
Percent volatile	:	not determined	
STABILITY AND REACTIVIT	Y		
Conditions to avoid	:	None known.	
Materials to avoid	:	None known.	
Hazardous decomposition products	:	When exposed to fire, produces normal products of combustion.	
Hazardous reactions	:	Stable	
TOXICOLOGICAL INFORMA		Ν	
Acute oral toxicity	:	LD50 rat	
		4/7	

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

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		Dose: Calculated > 7,000 mg/kg
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	LD50 rabbit Dose: Calculated > 2,000 mg/kg
Chronic effects Carcinogenicity	:	no data available
Mutagenicity	:	no data available
Reproductive effects	:	no data available
Teratogenicity	:	no data available
Sensitisation	:	no data available
12. ECOLOGICAL INFORMAT	ION	
Ecotoxicity effects	:	Not Available
13. DISPOSAL CONSIDERATI	ONS	
Industrial setting	:	Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Household setting	:	Consumer may discard empty container in trash, or recycle where facilities exist.
14. TRANSPORT INFORMATIO	ON	
Land transport		
U.S. DOT and Canadia UN-Number Proper shipping name Class: Packaging group	Nor	regulated
Sea transport	INUI	
		5/7

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

Version 1.1

Revision Date 12/03/2008

Print Date 01/19/2009

MSDS Number 35000004965

<i>IMDG:</i> UN-Number: Packaging group: Proper shipping name Class:	None. None. not regulated None.
Air transport ICAO/IATA: Class: Packaging group:	None. None.
Proper shipping name UN/ID No.:	not regulated None.
15. REGULATORY INFORMA	TION
Global Chemical Invente	ories
Notification status	: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
	: All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).
California Prop. 65	<ul> <li>This product is not subject to the reporting requirements under California's Proposition 65.</li> <li>This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.</li> </ul>
I6. OTHER INFORMATION	
HMIS Ratings	
Health	2
	6/7

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# WINDEX® OUTDOOR WINDOW & SURFACE CONCENTRATED CLEANER

<b>D</b>	Data 40/00/0000		Print Date 01/19/2009		
Revision Date 12/03/2008 MSDS Number 350000		Number 350000004965			
F	Flammability	0			
F	Reactivity	0			
	NFPA Ratings				
ŀ	Health	2			
F	Fire	0			
F	Reactivity	0			
S	Special				

# **Further information**

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)

# WINDEX POWERIZED FORMULA (READY TO USE)

National Fire Protection Association (NFPA)	Fire Haza Health	Reactivity	Hazardous Information (HMIS)		Health0Fire Hazard0Reactivity0			
Protective None required. Clothing								
Section 1. Chemical P	Product and Com	pany Identific						
Product Name WINDE			ADY TO USE)	Code	90940			
	I/Institutional: Cleanir			PMS#	433166			
U.S. Headquarters								
Drackett Professional	Drackett Professional Supersedes 04/13/2000.							
S.C. Johnson Commercial Ma 8310 16th Street								
Sturtevant, Wisconsin 53177-0 Phone: (888) 352-2249	Sturtevant, Wisconsin 53177-0902 Phone: (888) 352-2249							
Section 2. Composition	on and Informatio	on on Inaredie	ents					
Ingredients	CAS#	% by Weight	Exposure Lin	nits	LC50/LD50			
Ammonium Hydroxide	1336-21-6	0.5-1.5	Not available.		ORAL (LD50): Acute: 350 mg/kg			
2-Butoxyethanol	111-76-2	1-5	TWA: 120 (mg/m <sup>3</sup> ) f		[Rat]. ORAL (LD50): Acute: 506 mg/kg			
(PEL) [United States][Rat]. DERMAL (LD50): Acute:TWA: 97 (mg/m³) from ACGIH406 mg/kg [Rabbit]. VAPOR(TLV) [United States](LC50): Acute: 450 ppm 4 hours[Rat].								
Water7732-18-560-100Not available.Itratj.Water7732-18-560-100Not available.Not available.								
Section 3. Hazards Identification								
Routes of Entry Inhalation. Eye contact.								
Potential Acute Health Effects								
<i>Eyes</i> Practically non-irritating to eyes.								
Skin None known.								
<i>Inhalation</i> May be irritating to nose, throat, and respiratory tract.								
Ingestion Irritating to mouth, throat and stomach.								
Medical Conditions     None known.       Aggravated by Overexposure:								
See Toxicological Information (	(section 11)							
Section 4. First Aid M	Section 4. First Aid Measures							
Eye Contact	Rinse with plenty of r	unning water.						
	Rinse with plenty of r							
Inhalation	Remove to fresh air.							

# WINDEX POWERIZED FORMULA (READY TO USE)

Section 5. Fire Fighting Measures	
Flammability of the Product Flash Points	COMBUSTIBLE. CLOSED CUP: >93°C (199.4°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Use water spray to keep fire-exposed containers cool. Dry chemical, carbon dioxide.
Special Remarks on Fire and Explosion Hazards	Material may burn in heat of fire.

## Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Put on appropriate personal protective equipment (see Section 8.).	
Environmental Precautions and Clean-up Methods	Eliminate all ignition sources. In the event of major spillage: Use appropriate containment to avoid environmental contamination. Take up with sand or other non-combustible material. Place in suitable clean, dry containers for disposal by approved methods.	

# Section 7. Handling and Storage

Handling	Avoid contact with eyes. Use appropriate hygiene measures when handling product. FOR INDUSTRIAL USE ONLY
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep away from heat, sparks and flame. KEEP OUT OF REACH OF CHILDREN.

# Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	No special ventilation requirements. General room ventilation is adequate.
<b>Personal Protection</b>	
	Eyes No special protective clothing is required.
	Hands No special protective clothing is required.
<i>Respiratory</i> No special protective clothing is required.	
	<i>Feet</i> No special protective clothing is required.
	Body No special protective clothing is required.

# Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.
Odor	Mild. Ammoniacal.
Color	Clear Blue.
рН	10.2 to 11.2 [Basic.]
Specific Gravity	0.99
<b>Boiling/Condensation Point</b>	100°C (212°F)
Melting/Freezing Point	0°C (32°F)
Solubility in water	Complete.

# Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
<b>Conditions of Instability</b>	None known.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

# WINDEX POWERIZED FORMULA (READY TO USE)

Acute toxicity	ORAL (LD50) Estimated to be greater than 5000 mg/kg (rat).
Effects of Chronic Exposure	None known.
Other Toxic Effects	Not available.
Section 12. Ecologic	al Information
Not available.	
Section 13. Disposal	Considerations
Waste Information	No special precautions. Dispose of according to all federal, state and local regulations.
Section 14. Transpor	rt Information
DOT Classification	
Not regulated	
TDG Classification	
Not regulated	
Section 15. Regulato	prv Information
	is based on ingredients disclosed in Section 2
US Regulations	is based on ingredients disclosed in Section 2
Federa	I CERCLA: Hazardous substances.: 2-Butoxyethanol
State	<ul> <li>New Jersey spill list: 2-Butoxyethanol</li> <li>New Jersey: 2-Butoxyethanol</li> <li>Massachusetts spill list: 2-Butoxyethanol</li> <li>Massachusetts RTK: 2-Butoxyethanol</li> <li>Pennsylvania RTK: 2-Butoxyethanol</li> </ul>
	This product is not subject to the reporting requirements under California's Proposition 65.
Registered Product Information	
Canadian Regulations	
Canadian NPRI	Not applicable.
WHMIS Classification	Not controlled under WHMIS (Canada).
	I
WHMIS Icon	Not applicable
WHMIS Icon Registered Product Information	
<b>Registered Product</b>	
Registered Product Information	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Contro

Section 16. Other Information	
Other Special Considerations	Not available.
Version	1
<u>Notice to Reader</u> This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws	

and regulations.



# 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name Chemical Family Chemical Name Formula Molecular Weight Commercial Name Sodium Chloride (Salt) Alkali Metal/Halide Sodium Chloride NaCl 58.44 Diamond Crystal® Halite Winter Melt® Deicing Crystals

Manufacturer

Cargill Incorporated Salt Division P. O. Box 5621 Minneapolis, MN 55440 **Emergency Telephone Numbers** (952) 984-8214 during business hours

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Description** White crystalline solid.

**Ingredient Name CAS Number** Sodium Chloride 7647-14-5

**Exposure Limits** 

**Concentration (%)** 100%

# 3. HAZARDS INDENTIFICATION

EMERGENCY OVERVIEW

None - GRAS Substance (Generally Recognized As Safe)

# **Potential Health Effects**

Route(s) Of Entry: Ingestion, skin/eye contact, inhalation.

Human Effects and Symptoms of Overexposure:

Acute Inhalation: Irritation of the respiratory tract.

Chronic Inhalation: No applicable information found for chronic systemic effects

Acute Skin Contact: Large amounts can cause irritation and if applied to damaged skin, absorption can occur with effects similar to those via ingestion.

Chronic Skin Contact: No applicable information found for chronic systemic effects.

Acute Eye Contact: Irritation with burning and tearing (salt concentrations greater than the normal saline present).

Chronic Eye Contact: No applicable information found for chronic systemic effects.

Acute Ingestion: Intake of large amounts has generally occurred for deliberate reasons: suicide, absorption, and to induce vomiting. The following effects were observed; nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral (fluid on brain) or pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage. Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

Chronic Ingestion: No applicable information found for chronic systemic effects.

## Carcinogenicity

- **NTP:** Not listed as a carcinogen or mutagen.
- **IARC:** Not listed as a carcinogen or mutagen.
- **OSHA:** Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

# 4. FIRST AID MEASURES

First Aid For Eyes: For eye contact, flush with water immediately, lifting eyelids occasionally.

First Aid For Skin: Remove clothing from affected area. Wash skin thoroughly. Rinse carefully.

**First Aid For Inhalation:** If person breathes large quantities, remove to fresh air at once. If breathing stops, apply artificial respiration immediately.

**First Aid For Ingestion:** Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

## 5. FIRE AND MEASURES

Flash Point: N/A

Extinguishing Media: N/A. This product is nonflammable.

Special Fire Fighting Procedures: N/A.

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Contain spills to prevent contamination of water supply or sanitary sewer system. Vacuum or sweep into containers for proper disposal.

## 7. HANDLING AND STORAGE

Storage Temperature (min./max.): Avoid humid or wet conditions as product will cake and become hard.

Special Sensitivity: Avoid contact with strong acids.

Handling and Storage Precautions: Becomes hygroscopic at 70% Relative Humidity

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Requirements: Eyeglasses or goggles should be worn in dusty areas.

Skin Protection Requirements: Protective clothing may be worn in dusty areas, but is generally not required.

Respiratory/Ventilation Requirements: NIOSH/MSHA approved respirator for particulates.

Exposure Limits: Not listed.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** White crystalline solid with slight halogen odor.

Color: White crystalline solid

Odor: Halogen odor

Boiling Point (760mm Hg) (°C): 760 mm Hg. 1465 degrees C.

Melt Point/Freeze Point (<sup>0</sup>C): 801 degrees C.

**PH:** 6.7 - 7.3

Solubility In Water (g/cc, %): 26.4%

**Specific Gravity (H<sub>2</sub>0=1):** 2.16 (H<sub>2</sub>O)

**Bulk Density:** 53-83 Lbs/Ft<sup>3</sup>

% Volatile By Weight: N/A

Vapor Pressure (mm Hg/747<sup>o</sup>C): = 2.4

Vapor Density (Air=1): (Air=1) N/A

#### **10. REACTIVITY**

Stability: Stable

Incompatibilities: Avoid contact with strong acids. Becomes corrosive to metals when wet.

Decomposition Products: May evolve chlorine gas when in contact with strong acids.

# 11. TOXICOLOGICAL INFORMATION

Description: Not Listed

12. ECOLOGICAL INFORMATION Ecotoxicity: Not Listed.

Environmental Degradation: Not Listed.

# **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Follow applicable Federal, state and local regulations.

# 14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Listed

Technical Shipping Name: Not Listed

D.O.T Hazard Class: Not Listed

U.N./N.A. Number: Not Listed

Product Rq (lbs.): N/A

D.O.T. Label: Not Listed

D.O.T. Placard: N/A

Freight Class Bulk: N/A

Freight Class Package: N/A

Product Label: N/A

# **15. REGULATORY INFORMATION**

**OSHA Status:** Not Listed

TSCA Status: Listed as non hazardous.

Cercla reportable Quantity SARA Title III Section 302 Extremely Hazardous Substances: Not Listed

Section 311/312 Hazard categories: Not Listed

Section 313 Toxic Chemicals: Not Listed

RCRA Status: Not Listed

# **State Regulatory Information**

Component Name /CAS Number Concentration N/A

State-Code

# **16. OTHER INFORMATION**

Reason For Issue: Regulatory Compliance Prepared By: Skip Niman Approved By: Dave Merriweather Title: Director-Quality Administration Approval Date: September 2002 Supersedes Date: April 2002 MSDS Number: ND2

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It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.

# SAFETY DATA SHEET WINSOR & NEWTON WINTON OIL COLOURS

# **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:**

**PRODUCT NAME:** 

WINSOR & NEWTON WINTON OIL COLOURS

**APPLICATIONS:** 

Fine Art Painting

SUPPLIER:

Colart Whitefriars Avenue Harrow Middlesex HA3 5RH Tel: +44 (0) 208 4274343 Fax: 44 (0) 208 42433217

# 2. COMPOSITION/INFORMATION ON INGREDIENTS:

**COMPOSITION COMMENTS:** 

No ingredients classified as hazardous

# **3. HAZARDS IDENTIFICATION:**

Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES:		
INHALATION:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.	
INGESTION:	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.	
SKIN:	Remove affected person from source of contamination. Get medical attention if irritation persists after washing.	
EYES:	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.	

# 5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Fire can be extinguished using: Powder, foam or CO2.
UNUSUAL FIRE & EXPLOSION HAZARDS:	May ignite other combustible materials.
HAZARDOUS COMBUSTION PRODUCTS:	Fire creates: Oxides of: Carbon.

# 6. ACCIDENTAL RELEASE MEASURES:

#### SPILL CLEANUP METHODS:

Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

# 7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	Avoid spilling, skin and eye contact.
STORAGE PRECAUTIONS:	Keep in original container. Store at moderate temperatures in dry, well ventilated area.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS:	No exposure limits noted for ingredient(s).
VENTILATION:	Provide adequate general and local exhaust ventilation.
PROTECTIVE GLOVES:	Use suitable protective gloves if risk of skin contact.
EYE PROTECTION:	N/A.
<b>OTHER PROTECTION:</b>	Use barrier creams to prevent skin contact.
HYGIENIC WORK PRACTICES:	Use appropriate hand lotion to prevent defatting and cracking of skin. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Paste or slurry.		
COLOUR:	Varying.		
ODOUR/TASTE:	Characteristic.		
BOILING POINT (°C, interval):	> 300	Pressure:	760mmHg
DENSITY/SPECIFIC GRAVITY (g/ml):	1.00 - 2.7	Temperature (°C):	20
PARTICLE SIZE (micron):	< 25		
SOLUBILITY DESCRIPTION:	Not miscible with water.		
FLASH POINT (°C):	> 230	Method:	CC (Closed cup).
AUTO IGNITION TEMP. (°C):	> 300		

# **10. STABILITY AND REACTIVITY:**

STABILITY: Normally stable.

CONDITIONS TO AVOID:

Keep away from combustible material. Possible spontaneous combustion on drying.

HAZARDOUS DECOMP. PRODUCTS: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

# 11. TOXICOLOGICAL INFORMATION:

**HEALTH WARNINGS:** 

No specific health warnings noted.

# **12. ECOLOGICAL INFORMATION:**

**ECOLOGICAL INFORMATION:** Not regarded as dangerous for the environment.

# **13. DISPOSAL CONSIDERATIONS:**

**DISPOSAL METHODS:** 

Dispose of in accordance with Local Authority requirements.

# **14. TRANSPORT INFORMATION:**

**RAIL TRANSPORT NOTES:** Not Classified. SEA TRANSPORT NOTES: Not Classified. AIR TRANSPORT NOTES: Not Classified.

# **15. REGULATORY INFORMATION:**

#### NC Not classified

STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply.
GUIDANCE NOTES:	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

# **16. OTHER INFORMATION:**

#### **REVISION DATE:**

17/12/2001

# SAFETY DATA SHEET STATUS: Approved.

4 /4

SPRAY PRODUCTS CORP -- WORKABLE FIXATIVE SPRAY -- 0000-\_\_\_\_\_ MSDS Safety Information MSDS Date: 01/22/1991 MSDS Num: CKZBK Tech Review: 02/26/2001 Product ID: WORKABLE FIXATIVE SPRAY Responsible Party Cage: 12625 Name: SPRAY PRODUCTS CORP Address: CONSHOHOCKEN RD Box: 737 City: NORRISTOWN PA 19404 US Info Phone Number: 215-277-1010 Emergency Phone Number: 215-277-1010 / 800-424-9300 Resp. Party Other MSDS No.: #43803 Chemtrec IND/Phone: (800)424-9300 \_\_\_\_\_ Contractor Summary Cage: 27028 Name: HAMMETT J L CO Address: 1 HAMMETT PL Box: 859057 City: BRAINTREE MA 02185 US Phone: 617-848-1000 Cage: 12625 Name: SPRAY PRODUCTS CORPORATION Address: CONSHOHOCKEN RD Box: 737 City: NORRISTOWN PA 19404 US Phone: 610-277-1010 \_\_\_\_\_ Ingredients Cas: 67-64-1 RTECS #: AL3150000 Name: ACETONE Percent by Wt: 65.5 Other REC Limits: NONE RECOMMENDED ACGIH TLV: 750PPM EPA Rpt Qty: 5000 LBS DOT Rpt Qty: 5000 LBS Ozone Depleting Chemical: N \_\_\_\_\_ Cas: 75-28-5 RTECS #: TZ4300000 Name: ISOBUTANE = Wt: 12.5 Other REC Limits: NONE RECOMMENDED ACGIH TLV: 800 PPM Ozone Depleting Chemical: N \_\_\_\_\_ Cas: 108-65-6 RTECS #: AI8295000 Name: PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

= Wt: 4.8 Other REC Limits: NONE RECOMMENDED ACGIH TLV: N/E Ozone Depleting Chemical: N \_\_\_\_\_ Cas: 74-98-6 RTECS #: TX2275000 Name: PROPANE = Wt: 12.5 Other REC Limits: NONE RECOMMENDED ACGIH TLV: 1000 PPM Ozone Depleting Chemical: N \_\_\_\_\_ Health Hazards Data \_\_\_\_\_ Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: NO Carcinogenicity Inds - NTP: NO IARC: NO OSHA: NO Effects of Exposure: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS W/PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. MAY CAUSE DEFATTING AND DRYING OF SKIN. Signs And Symptions Of Overexposure: HEADACHE, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. DRYING AND DEFATTING OF SKIN. Medical Cond Aggravated By Exposure: DRYING AND DEFATTING OF SKIN. First Aid: INHALATION-REMOVE TO FRESH AIR. SKIN-WASH WITH SOAP & WATER. EYES-FLUSH WITH WATER. INGESTED-DO NOT NDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. \_\_\_\_\_ Handling and Disposal \_\_\_\_\_ Spill Release Procedures: ELIMINATE ALL SOURCES OF HEAT OR IGNITION. VENTILATE AREA. APPLY ABSORBENT MATERIAL TO SPILL. Waste Disposal Methods: DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS. Handling And Storage Precautions: EXTREMELY FLAMMABLE. STORE AND USE AWAY FROM HEAT AND IGNITION. Other Precautions: CONTENTS UNDER PRESSURE-DO NOT STORE ABOVE 120F. \_\_\_\_\_ Fire and Explosion Hazard Information Flash Point: =-104.4C, -156.F Lower Limits: 2.2 Upper Limits: 8.9 Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICALS. Fire Fighting Procedures: HANDLE AS FLAMMABLE LIQUID. Unusual Fire/Explosion Hazard: CONRENTS UNDER PRESSURE. \_\_\_\_\_ Control Measures \_\_\_\_\_ Respiratory Protection: USE NIOSH APPROVED ORGANIC VAPOR RESPIRATOR.

Ventilation: LOCAL EXHAUST: YES. MECHANICAL (GENERAL): IF REQUIRED.

SPECIAL: NONE. OTHER: NONE. Protective Gloves: NEOPRENE IF SUBJECTED TO. Eye Protection: CHEMICAL SPLASH GOGGLES. OR SAFETY GLASSES. Other Protective Equipment: NONE. Work Hygienic Practices: AVOID BREATHING VAPOR AND EYE AND SKIN EXPOSURE. Supplemental Safety and Health: SECTION IIA-NON TOXIC CERTIFICATION: CP SEAL NOT KNOWN. AP SEAL NOT KNOWN. ASTM D4236 NOT KNOWN. \_\_\_\_\_ Physical/Chemical Properties \_\_\_\_\_ HCC: V3 Boiling Point: =-41.9C, -43.7F Melt/Freeze Pt: =-93.7C, -137.F Vapor Pres: 153 MM HG Vapor Density: 2.2 Spec Gravity: 0.814 Evaporation Rate & Reference: 4.86 (N-BUTYL ACETATE=1) Solubility in Water: APPRECIABLE Appearance and Odor: CLEAR COLOR; SOLVENT ODOR. Reactivity Data Stability Indicator: YES Stability Condition To Avoid: KEEP AWAY FROM SPARKS, HEAT OR OPEN FLAME. Materials To Avoid: NONE. Hazardous Decomposition Products: CARBON MONOXIDE & CARBON DIOXIDE MAY BE FORMED DURING COMBUSTION. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: WILL NOT OCCUR. \_\_\_\_\_ Toxicological Information \_\_\_\_\_ \_\_\_\_\_ Ecological Information \_\_\_\_\_ MSDS Transport Information \_\_\_\_\_ \_\_\_\_\_ Regulatory Information \_\_\_\_\_ Federal Regulatory Information: ACETONE: CERCLA RQ = 5000 LB, RCRA CODE: U0002, ISOBUTANE: CAA TQ = 10000 LB, PROPANE: CAA TQ = 10000 LB \_\_\_\_\_ Other Information \_\_\_\_\_ \_\_\_\_\_ Transportation Information \_\_\_\_\_ Responsible Party Cage: 12625 Trans ID NO: 156085 Product ID: WORKABLE FIXATIVE SPRAY MSDS Prepared Date: 01/22/1991

Review Date: 02/26/2001 Article W/O MSDS: N Limited Quantity IND: N Multiple KIT Number: 0 Unit Of Issue: CY Type Of Container: CYLINDER \_\_\_\_\_ Detail DOT Information DOT PSN Code: AGC DOT Proper Shipping Name: AEROSOLS, FLAMMABLE, DOT PSN Modifier: (EACH NOT EXCEEDING 1 L CAPACITY) Hazard Class: 2.1 UN ID Num: UN1950 Label: FLAMMABLE GAS Special Provision: N82 Non Bulk Pack: NONE Bulk Pack: NONE Max Qty Pass: 75 KG Max Qty Cargo: 150 KG Vessel Stow Req: A Water/Ship/Other Reg: 40,48,85 \_\_\_\_\_ Detail IMO Information \_\_\_\_\_ IMO PSN Code: AKD IMO Proper Shipping Name: AEROSOLS o IMDG Page Number: 2102 UN Number: 1950 UN Hazard Class: 2(T) IMO Packaging Group: -Subsidiary Risk Label: T EMS Number: 2-13 MED First Aid Guide NUM: 620 \_\_\_\_\_ Detail IATA Information \_\_\_\_\_ IATA PSN Code: ALS IATA UN ID Num: 1950 IATA Proper Shipping Name: AEROSOLS, FLAMMABLE IATA PSN Modifier: (EACH NOT EXCEEDING 1 L CAPACITY) IATA UN Class: 2.1 IATA Label: FLAMMABLE GAS Packing Note Passenger: 203 Max Quant Pass: 75KG Max Quant Cargo: 150KG Packaging Note Cargo: 203 \_\_\_\_\_ Detail AFI Information \_\_\_\_\_ AFI PSN Code: ALR AFI Symbols: \* AFI Proper Shipping Name: AEROSOLS, FLAMMABLE, N.O.S. AFI PSN Modifier: (EACH NOT EXCEEDING 1L CAPACITY) AFI Hazard Class: 2.1 AFI UN ID NUM: UN1950 Special Provisions: P4

Back Pack Reference: A6.3 \_\_\_\_\_\_ HAZCOM Label \_\_\_\_\_ Product ID: WORKABLE FIXATIVE SPRAY Cage: 12625 Company Name: SPRAY PRODUCTS CORPORATION Street: CONSHOHOCKEN RD PO Box: 737 City: NORRISTOWN PA Zipcode: 19404 US Health Emergency Phone: 215-277-1010 / 800-424-9300 Date Of Label Review: 02/26/2001 Chronic Hazard IND: Y Eye Protection IND: YES Skin Protection IND: YES Signal Word: DANGER Respiratory Protection IND: YES Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: Severe Reactivity Hazard: None Hazard And Precautions: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS W/PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. MAY CAUSE DEFATTING AND DRYING OF SKIN. \_\_\_\_\_ Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.

SDS #: 849.00 Revision Date: March 21, 2014

DANGER

Signal Word

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Wright's Stain

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

# **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

# Pictograms

# SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Wright's stain	68988-92-1	$C_{52}H_{42}Br_4N_6O_5S_2$	1214.1	
Synonym: Blood stain				

# SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

# **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

When heated to decomposition, may emit toxic fumes. In case of fire: Use a tri-class dry chemical fire extinguisher.

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wipe up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

None established

# NFPA CODE

Wright's Stain

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains. Keep container tightly closed. Store in a cool, dry place.

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling. Will stain skin, clothing, and surfaces.

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark green, crystalline-like powder. Odorless. Soluble: Alcohol A mixture of halogenated xanthenes and amino-phenothiazines. Biological stain (blood cell stain).

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizing agents. Shelf life: Indefinite, if stored properly.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Serious eye irritant, nausea, vomiting. Chronic effects: N.A. Target organs: Eyes and digestive tract. ORL-RAT  $LD_{50}$ : N.A. IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

# SECTION 12 — ECOLOGICAL INFORMATION

Toxic to aquatic life.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

## SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

#### N/A = Not applicable

# SECTION 15 — REGULATORY INFORMATION

Not listed.

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 21, 2014

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APR-11-2000 15:14				P.01/02
Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. Rud	April 2000	U.S. Department of Labo Occupational Safety and Health Av (Non-Mandatory Form) Form Approved OMB No. 1218-0072 24-5930	dministration /	50
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Crist operation of Products Company		1/29/98 Signature of Prepater (optional)		
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Section II — Hazardous Ingredients/Iden	ntity Information	00	1.1.1.1	
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leps to Be Tak /aste Disposal recautions to B ther Precaution ther Precaution espiratory Pro- None re enulation	en in Case Materi Floor may b recovery or Method Incinerate federal rec as Taken in Handli Keep from """ N/A Control Me tection (Specify Type couired with Local Exhaust Mechanical (Gen	at a j dispo dispo at a j julatio ng and Si reezij asures asures asures asures asures adequ Adequ	pery; use ca sal. Keep of permitted fac ons. oring ng - product	cility acc may coaqu tion & nor	icipal sewers ording to cur ilate. mal operating Special Other	rrent loo	ions.
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leps to Be Tak /aste Disposal recautions to B ther Precaution iection VIII espiratory Pro- None re enulation ) rotective Glove ther Protective	Method Incinerate federal rec federal rec de Taken in Handli Keep from N/A — Control Me tection (Specify Type couired with Local Exhaust Mechanical (Gen is Impervious	at a j dispo dispo at a j julation ng and St reezin asures asures asures asures asures	pery; use ca sal. Keep of permitted fac ons. oring ng - product	cility acc may coaqu tion & nor	icipal sewers ording to cur ilate. mal operating Special Other	rrent loo	ions.
leps to Be Tak /ane Disposal recautions to B Ther Precaution Cection VIII lespiratory Prov NONE To retective Glove ther Protective Control Control Co	Method Incinerate federal rec federal rec	at a j dispo dispo at a j ng and si reezij asures asures aures asures asures	pery; use ca sal. Keep of permitted fac ons. oring ng - product uate ventilat uate	cility acc may coaqu tion & nor	icipal sewers ording to cur ilate. mal operating Special Other	rrent loc	ions.

Supercedes Date Not applicable

# Material Safety Data Sheet: X-CON 322 PLUS AEROSOL 1. PRODUCT AND COMPANY IDENTIFICATION

2. HAZARDS IDENTIFICATION

Issuing Date 03/10/2009

Product Name X-CON 322 PLUS AEROSOL Product Code 5611 Information on Manufacturer MANTEK, DIVISION OF NCH CORP. BOX 152170 IRVING, TEXAS 75015

Recommended Use Solvent-borne coatings Chemical Nature Solvent mixture Emergency Telephone Number CHEMTREC <sup>®</sup> 800-424-9300

Emergency Overview Danger Extremely flammable Harmful if inhaled Severe skin irritation Severe eye irritation May be harmful if absorbed through skin Harmful or fatal if swallowed Contents under pressure Color White Physical State Aerosol Odor Strong Pungent Potential Health Effects Principle Route of Exposure Skin contact, Eye contact, Inhalation. Primary Routes of Entry Inhalation, Skin Absorption. Acute Effects Eyes Severe eye irritant. May cause irreversible eye damage. Skin Severe skin irritant. Inhalation Harmful by inhalation. Inhalation may cause central nervous system effects. May cause drowsiness and dizziness. Irregular cardiac activity. Harmful or fatal if swallowed. Causes headache, drowsiness or other effects to the central nervous system. Aspiration hazard. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia. Ingestion **Chronic Effects** Liver and kidney injuries may occur. Target Organ Effects Aggravated Medical Conditions Central nervous system, Central Vascular System, Liver, Lungs, Kidney, Blood, Skin, Eyes. Central nervous system. Liver disorders. Respiratory disorders. Skin disorders. Potential Environmental Effects See Section 12 for additional Ecological information.

Component	CAS-No
Methylene chloride	75-09-2
Propane	74-98-6
Butane	106-97-8
Palmitic acid	57-10-3
Stearic acid	57-11-4

3. COMPOSITION / INFORMATION ON INGREDIENTS

	4. Fi	RST AID MEASU	IRES				
General Advice				t/fume/gas/mist/vapors/spray .			
Eye Contact	Immediately flush with plenty minutes. Keep eye wide open			nove any contact lenses and continue on immediately	flushing for at least 15		
Skin Contact				tes. Get medical attention if symptom	s occur.		
inhalation				If breathing has stopped, apply artific			
Ingestion	Drink 1 or 2 glasses of water.	Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.					
Notes to Physician		Aspiration hazard if swallowed - can enter lungs and cause damage. May cause cardiac arrhythmia.					
	5. FIRE	-FIGHTING MEA	SURES				
Flash Point > 201°F / > 94		Method		Seta closed cup			
Autoignition Temperature No information	available.						
lammability Limits in Air % Mixture.		Upper 2	3	Lower 1.8			
uitable Extinguishing Media Vater spray. Carbon dioxide (CO2). Dry cf	namical Foam						
Specific Hazards Arising from the Chem							
	ay spread along floors. Vapors may travel to	areas away from	n work site befor	e igniting/flashing back to vapor sourc	e Material can create slippe		
onditions. Flame extension: >18 inches / >							
Protective Equipment and Precautions f							
is in any fire, wear self-contained breathin	g apparatus pressure-demand, MSHA/NIOSH	I (approved or e	quivalent) and fu	Il protective gear.			
IFPA Health	2 Flammability	4	Instability	0			
IMIS Health	2 Flammability	4	Instability	0			
	6. ACCIDEN	TAL RELEASE	MEASURES				
Personal Precautions	Remove all sources of ignition	. Ensure adequa	te ventilation. M	aterial can create slippery conditions.			
Environmental Precautions	Prevent product from contamin water or sanitary sewer system		n entering sewa	ge, drainage systems, and bodies of w	vater . Do not flush into surface		
	No information available.						
lethods for Containment	No information available.		absorbent mate	rial, (e.g. sand, earth, diatomaceous ea	arth, vermiculite) and transfer		
Aethods for Containment Aethods for Cleaning Up	No information available.	non-combustible			arth, vermiculite) and transfer		
lethods for Containment	No information available. Contain spillage, soak up with	non-combustible			arth, vermiculite) and transfer		
Methods for Containment Methods for Cleaning Up	No information available. Contain spillage, soak up with a container for disposal accord Not applicable.	non-combustible	ional regulations		arth, vermiculite) and transfer		

#### Handling

Storage Storage Temperature Storage Conditions Avoid contact with skin, eyes, and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Do not breathe vapors or spray mist. Avoid breathing vapors or mists.

Keep out of the reach of children. 35°F / 2°C Minimum Indoor X Outdoor

Maximum 130°F / 54°C Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m
Butane	TWA: 1000 ppm	No data available	TWA: 1900 mg/m TWA: 800 ppm
Palmitic acid	No data available	No data available	No data available
Stearic acid	No data available	No data available	No data available

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment Eye/Face Protection

Tightly fitting safety goggles.

Impervious gloves.

Skin Protection **Respiratory Protection General Hygiene Considerations** 

Use NIOSH approved respiratory protection.

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

	White	Odor	Strong Pungent
Appearance	Opaque	pH	Not applicable
Specific Gravity	1.20	Evaporation Rate	>1 (Butyl acetate=1)
Percent Volatile (Volume)	No information available	VOC Content (%)	No information available
	2844 mmHg @ 70 *F	Vapor Density	>1 (Air = 1.0)
	Insoluble	Boiling Point/Range	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

**Chemical Stability** Conditions to Avoid Incompatible Products Hazardous Decomposition Products **Possibility of Hazardous Reactions** 

Stable under normal conditions. Hazardous polymerization does not occur. Heat, flames, and sparks. Strong oxidizing agents, Acids, Alkali metals. Carbon oxides, Chlorine gas., Hydrogen chloride gas, Phosgene. None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

#### **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methylene chloride	2000 mg/kg ( Rat )	no data available	76000 mg/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Propane	no data available	no data available	658 mg/L ( Rat ) 4 h	no data available	no data available
Butane	no data available	no data available	658 mg/L ( Rat ) 4 h	no data available	no data available
Palmitic acid	10 g/kg ( Rat )	no data available	no data available	no data available	no data available
Stearic acid	no data available	5 g/kg (Rabbit)	no data avaitable	no data available	no data available

#### **Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methylene chloride		Cardiovascular	x	Female reproductive toxin.	skin, CVS, eyes, CNS (in animals: lung, liver, salivary and mammary gland tumors), Blood, Heart, Kidney
Propane	no data available	no data available	no data available	no data available	CNS, liver, heart
Butane	no data available	no data available	no data available	no data available	CNS, liver, heart
Palmitic acid	no data available	no data available	no data available	no data available	no data available
Stearic acid	no data available	no data available	no data available	rio data available	no data available

#### Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Methylene chloride	A3	Group 2B	Reasonably Anticipated	X	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Palmitic acid	not applicable	not applicable	not applicable	not applicable	not applicable
Stearic acid	not applicable	not applicable	not applicable	not applicable	not applicable

#### 12. ECOLOGICAL INFORMATION

#### Product Information

No information available

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methylene chloride	h EC50 96 Selenastrum capricornutum >660 mg/L	h LC50 96 Pimephales promelas 140.8-277.8 mg/L h LC50 96 Pimephales promelas 262-855 mg/L	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	h EC50 48 140 mg/L	1.25

Desses		h LC50 96 Lepomis macrochirus 193 mg			
Propane Butane	no data available no data available	no data available	no data available	no dala available 2.3	
Palmitic acid	no data available	no data available h LC50 96 Oryzias latipes 150 mg/L	no data available no data available	no data available 2.89	
Steanc acid	no data available	no data available	no data available	no data available N/A no data available N/A	
ersistence and Degradability ioaccumulation lobility	No information No information No information	available.			
		13. DISPOSAL CONSIDERATIO	ONS		
Product Disposal Container Disposal	Warning! Conta	ccordance with local regulations iner under pressure. Do not puncture i for local recycling, recovery or wast	. Empty remaining contents. Do not re-us e disposal	e empty containers. Empty container	
		14. TRANSPORT INFORMATIC	N		
тот	DOT				
Proper Shipping Name	Consumer com	modity			
Hazard Class	ORM-D				
Description	Consumer com	modity .ORM-D.			
DG					
Proper shipping name Hazard Class	Aerosols 2.1				
UN-No	2.1 UN1950				
Description		UN1950 LTD QTY			
	numorou3,6.1	WITTEND LILE NET			
AO					
UN-No	UN1950				
Proper Shipping Name	Aerosols				
Hazard Class	2.1				
Shipping Description	UN1950, AERO	SOLS, FLAMMABLE, 2.1 LTD QTY			
TA					
UN-No	UN 1950				
Proper Shipping Name		Aerosols, flammable			
Hazard Class	2.1				
ERG Code	10L				
Shipping Description	UN1950,Aeroso	Is, flammable.2.1 LTD QTY			
DG/IMO					
Proper Shipping Name	Aerosols				
Hazard Class	2				
UN-No	UN 1950				
EmS No.	F-D, S-U				
Shipping Description	UN1950, Aeroso	IS.2.1 LTD QTY			
		15. REGULATORY INFORMATIC	NC		
ventories					
SCA SL	Complies				
S. Federal Regulations	Complies				
ARA 313					
	Amendments and Reauthorization	Act of 1986 (SARA). This product co	ontains a chemical or chemicals which an	subject to the reporting requirement	
the Act and Title 40n of the Code of		and the second three different second second second			
Compo		CAS-No	Weight %	SARA 313 - Threshold Values	
Methylene	chloride	75-09-2	45-50	0.1	
RA 311/312 Hazardous Categoriza				1	
	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure	Reactive Hazard	
Acute Health Hazard	Yes	Yes	Hazard Yes		
Acute Health Hazard		Tes	105	No	
Acute Health Hazard Yes	Tes			CERCLA EHS RQs	
Acute Health Hazard Yes RCLA		Hazardous Substan			
Acute Health Hazard Yes RCLA Compo	nent	Hazardous Substan	ices Rus	and the second se	
Acute Health Hazard Yes RCLA Compo Methylene	nent chloride	1000 lb		Not applicable	
Acute Health Hazard Yes IRCLA Compo Methylene Propa	nent chloride ine	1000 lb Not applicable		Not applicable Not applicable	
Acute Health Hazard Yes RCLA Compo Methylene Propa Buta	nent chloride ine ne	1000 lb Not applicable Not applicable		Not applicable Not applicable Not applicable	
Acute Health Hazard Yes ERCLA Compo Methylene Propa	nent chloride ne e ecid	1000 lb Not applicable		Not applicable Not applicable	

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR. WHMIS Hazard Class

A Com

essed gases, B5 Flammable aerosol, D2A Very toxic materials.



16. OTHER INFORMATION

Prepared By Supercedes Date Issuing Date

Dan Hollas Not applicable 03/10/2009 Reason for Revision Glossary List of References. No information available. No information available. No information available

MANTEK, DIVISION OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

XEROX	Material Safety Dat	a Sheet	MSDS No: Date: Revision:	D-0401 3/8/83 9/20/05
oplier: Xerox Corporation	Xerox Canada Ltd.	<b>Felephone</b> #(s):	Safety Information: (800) 828	
Rochester, NY 1464			Health Emergency: (585)422-2	
	North York, Ontario M2M 4G7 Section I - Product Identi	fication	Transportation Emergency(Ch	
Trade Names/Synonyms:	Formula A Cleaner, Liquid Cleaning K	it, Par	<b>t No.:</b> 43P48, 43P49, 43P50, 43P5	1*
	Exterior Cleaner, Formula B Cleaner		Included in Kits: 8R1169*, 8R3674, 8R3800*	,8R582*,
Chemical Name:	None		XCI: 544P20361 Contained	l in: 8R3709
WHMIS Status:	Class B/Div. 3, Combustible and Clas	s D/Div. 2B, Toxic	e *Canc	elled
	Ingredients (% by wt.)		CAS No.	
	Water (75-80%)		7732-18-5	
	Isopropanol (5-10%) <sup>1,2</sup>		67-63-0	
	1-Butoxy - 2-propanol (5-10%) <sup>1,2</sup>		5131-66-8	
	Linear alcohol surfactant; $C_{11}$ - $C_{15}$ (<59)	Linear alcohol surfactant; $C_{11}$ - $C_{15}$ (<5%)		
	Sodium xylenesulfonate (<5%)			
	Section II - Emergency a	nd First Aid		
Primary Route of Entry:		Symptoms of O		
Inhalation		Central nervous system depression, cardiovascular and respiratory		
Eyes:		depression and g	gastrointestinal irritation.	
Flush thoroughly with wa	ter.		~	
Skin:			ons Generally Aggravated by Ex	-
Wash thoroughly with so	ap and water.	None when used	l as described by product literatu	re.
Inhalation: Remove from exposure.		Additional Infor	mation	
Ingestion:		None.	mauon.	
Dilute stomach contents v		TIONC.		

# Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD <sub>50</sub> :	>5 g/kg (rats) practically non-toxic.	TLV:	400 ppm (isopropanol)
Dermal LD <sub>50</sub> :	>10.2 g/kg (rabbits) practically non-toxic.	PEL:	400 ppm (isopropanol)
Inhalation LC <sub>50</sub> :	>200 mg/l practically non-toxic.	STEL:	500 ppm (isopropanol)
Eye Irritation:	Irritant	Ceiling	: N.E.
Skin Sensitization:	Not a sensitizer.	XEL <sup>3</sup> :	25 ppm (1-butoxy -2-propanol)
Skin Irritation:	Not an irritant.		
Human Patch:	N.D.		
Mutagenicity:	N.D.		
Carcinogens:	None present		
Aquatic LC <sub>50</sub> :	N.D.		

#### Additional Information: None

<sup>1</sup>This product contains a toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372. <sup>2</sup>Hazardous ingredient(s) as defined by WHMIS. <sup>3</sup>XEL-Xerox Exposure Limit.

## N.A. - Not Applicable N.E. -None Established N.D. -Not Determined

## Trade Name: Formula A Cleaner, Liquid Cleaning Kit, Exterior Cleaner, Formula B Cleaner

#### Section IV - Physical Data

Appearance/Odor:	Clear liquid / slight odor	Softening Range:	N.A.
<b>Boiling Point:</b>	89-99 <sup>0</sup> С	Melting Point:	N.A.
Solubility in Water:	Completely	Specific Gravity (H <sub>2</sub> O=1): ~1	
<b>Evaporation Rate</b>	2,9 (N-butylacetate=1)	Vapor Pressure @ 20 <sup>o</sup> C (mm Hg):	15
Vapor Density (Air=1):	2.07	pH:	9.6
Volatile:	96.4% (Wt.) N.A. % (Vol.)	VOC:	200 g/l

#### Section V - Fire and Explosion Data

Flash Point (Method Used):	106 °F (41.1°C) (P.M.C.C.)
Flammable Limits:	LEL: 2%*, UEL: 12% *Value for isopropanol at 760mm and 82°C.
NFPA 704:	Health - 0, Fire - 2, Reactivity - 0
Extinguishing Media:	Water, foam, dry chemical, CO <sub>2</sub> .
Special Fire Fighting Procedures:	Use water spray to cool containers.
Fire and Explosion Hazards:	A moderate explosion hazard occurs when this material is exposed to heat or flames.

# Section VI -Reactivity Data

Occur

Stability:	Stable
Hazardous Polymerization:	Will Not
Hazardous Decomposition Products:	None
Incompatibility (Materials to Avoid):	None

#### **Section VII - Special Protection Information**

<b>Respiratory Protection:</b>	None required when used as intended in Xerox products.
Eye Protection:	Safety glasses with side shields or goggles required.
Protective Gloves:	Rubber or vinyl coated gloves recommended.
Other:	None required when used as intended in Xerox products.

## Section VIII - Special Precautions

Handling and Storage:	Do not store near heat, flames, or sparks. This material is similar to soap and may be irritating to eyes.
Conditions to Avoid:	None

#### Section IX - Spill, Leak, and Disposal Procedures

For Spills or Leakage:	No special procedures.	(Similar to washroom soaps.)	

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

# Section X - Transportation Information

D.O.T.	Proper Shipping name NOT Regulated	Hazard Class , per 49 CFR 173	<u>ID#</u> .150 (e)(2) [Aqu	Packing Group leous solutions of	Exceptions may apply alcohol]
I.A.T.A.	Flammable Liquid, n.o.s. (isopropyl alcohol)	3	UN1993	III	yes
I.M.O.	Flammable Liquid, n. (isopropyl alcohol)	D.S. 3	UN1993	III	yes
T.D.G.	Flammable liquid N.O.S. (isopropyl alcohol)	3	UN1993.	III	1.37 Alcohol Exemption - applies to these products for road, rail and Canadian domestic water shipment

Distributor: Xerox Corporation Rochester, NY 14644 Telephone # (s): Safety Information: (800) 828-6571 Health Emergency: (585) 422-2177 Transportation Emergency (Chemtrec): (800) 424-9300

Section I - Product Identification

#### Trade Names/Synonyms:

Trade Names/Synonym	s:	Part No.: WH: 4R64, 5E2260, 5K1580, 5K1770, 5K2796, 5K31
Fuser Oil - 840/970/1005/	1055/1200/2300/2350/2400/3600-1/4000/4500/	5K3341, 5K3711, 5K3721, 5R780, 600K47141, 600S4902,
5400/5600/5700/7000/7080	0/7085/8700/8700 MICR/8790/8790 MICR/	6R281, 70N20, 70N28, 70P88, 8R111, 8R12874, 8R12891, 8R24(
9200/9400/9700/9700MICI	R/9790/9790 MICR, 990, 2510/2511/2515/	8R3692, 8R3805, 8R3826, 8R3847, 8R3913, 8R4096,
2520,4900,4354/8830/8836	5, DocuPrint 420 CFT/ DocuPrint 377CF/	8R7612, 8R7639, 8R7654, 8R7696, 8R7724, 8R7854,
DocuPrint C55, 8825, 3040	, 3001, DocuPrint NC60, DocuPrint 350/425/500,	8R79, 8R7980, 8R983, 93E770, 93E811, 94E90510,
DocuPrint 700/850/1000, V	Vide Format 510 DP	94E95071, 94E95090, 8R12936, 94K95051,
		94S20750, 13R413, 13R415, 13R418, 13R52,19E2013,
Fuser Lubricant - 1040/10	045/1048/1050/5042/5050/5052/5053/5345/5355/	19E3032, 19K2691, 22K37870, 22K84501, 108R358, 109R327,
Bookmark35,1075/1090/40	050/4090/4250/4450/4650/4850/4890/5388/	109R328, 109R329, 109R330, 109R331, 109R332, 109R333,
DocuTech90/5680, 5892, 8	855 ,DocuPrint 92C, DocuPrint 350 HC / 390 HC	109R334, 109R335, 109R336, 109R337, 109R338, 109R339
Fuser Web - 5100,5016/50	)18/5021/5028/5034/5126/5328,5337/5334/5340,	109R340, 109R341, 109R342, 109R343, 109R344, 109R345,
5818/5820/5828/5830/5350	),5343,5343C,5352, 5352C/5624/5626/5665, 5800,	109R346, 109R347, 109R491, 109R492, 109R493, 109R494,
Bookmark-21, 5800,5885,5	5890,5895, 5900, 5900I, 5990, 5995, XC-1875/	109R495, 109R496, 109R497, 109R498, 109R499, 109R500
XC-2675/8233/ Document	Centre 240/255/265/455/460/465/470/480/490,	109R511, 109R512, 109R513, 109R514, 109R515, 109R516,
DocuTech 65, DocuTech 7:	5, DocuTech 90, DocuPrint 65, DocuPrint 75, DocuPrint 90	109R517, 109R518, 109R519, 109R520, 604K00180
WorkCentre Pro 65/75/90;	Copy Centre C65/C75/C90	XLA: 6R282, 13R48, 13R49; FX: 19K3310; XCI: 13R513,
Fuser Wick - 4030/4197,4	213/4215/4219,4220/MRP/4230,4505/4520/8810,	13R515 XL: 13R416, 13R53, 8R90351
7041/7042,/3010,5051,532	1/3030/3050/3060,8855	<b>XE</b> : 8R4004, 8R90351, 8R404
Fuser Roll - 5113/5114/56	14/5380DADF/5385RDH	Included with: 6R855, 13R406, 19E9760, 19K2541,
		19K2692, 94K231, 94K1891, 94K1981, 94K2660
		94K3300, 106R53, 106R55, 113R2
Chemical Name:	Polydimethylsiloxane	Cancelled - 5K90780, 19E6250, 19E7110, 19E7170,

WHMIS Status: This is not a WHMIS controlled product.

Ingredients (% by wt.) Polydimethylsiloxane (100%) CAS No. 63148-62-9

#### Section II - Emergency and First Aid

#### **Primary Route of Entry:** Inhalation Eves: Flush with water. Skin: Wash with soap and water. Inhalation: Remove from exposure. **Ingestion:**

#### Symptoms of Overexposure:

May cause minimal irritation of respiratory passages on continuous exposure to high concentrations.

19E17500, 73K68755, 94E95510

Medical Conditions Generally Aggravated by Exposure: None when used as described by product literature.

**Additional Information:** None

Dilute stomach contents with several glasses of water.

## Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD <sub>50</sub> : Dermal LD <sub>50</sub> : Inhalation LC <sub>50</sub> :	>35 g/kg (rats) practically non-toxic. >3 g/kg (rabbits) practically non-toxic. >11 mg/l (rats) practically non-toxic >44 mg/l (rats, calc.1 hr exposure) non-poisonous DOT. <sup>1</sup>	TLV: PEL: STEL: Ceiling:	N.E. N.E. N.E. N.E.
Eye Irritation:	Not an irritant	$\mathbf{XEL}^2$ :	N.E.
Skin Sensitization:	Not a sensitizer.		
Skin Irritation:	Not an irritant.		
Human Patch:	Non-irritating, non-sensitizing		
Mutagenicity:	No mutagenicity detected in Ames, UDS, and Dominant Lethal Assays.		
Carcinogens:	None present		
Aquatic LC <sub>50</sub> :	>1000 mg/l (fathead minnows) non-toxic.		

#### Additional Information: None

<sup>1</sup>Not tested to the highest dose or concentration. <sup>2</sup>XEL-Xerox Exposure Limit

N.A. - Not Applicable N.E. -None Established N.D. -Not Determined

# Xerox

**Trade Name:** Fuser Oil - 840/970/1005/1055/1200/2300/2350/2400/3600-1/4000/4500/5400/5600/5700/7000/7080/7085/ 8700/8700 MICR/8790/8790 MICR/9200/9400/9700/9700MICR/9790/9790 MICR, 990, 2510/2511/2515/2520,4900,4354/8830/8836, DocuPrint 420 CFT/ DocuPrint 377CF/DocuPrint C55, 8825, 3040, 3001, DocuPrint NC60, DocuPrint 350/425/500, DocuPrint 700/850/1000, Wide Format 510 DP, Fuser Lubricant – 8700/1040/1045/1048/1050/5042/5050/5052/5053/5345/5355/Bookmark35/1075/1090/4050/4090/4250/4450/4650/4850/ 4890/5388/DocuTech 90/5680/5892/8855/ DocuPrint 92C/DocuPrint 350 HC/390 HC EuroprWeb5100/5016/5018/5021/5028/5024/5126/5329/5232/5234/5240/

FuserWeb5100/5016/5018/5021/5028/5034/5126/5328/5337/5334/5340/5350/5343/

5343C/5352/5352C/5624/5626/5665/5800/5818/5820/5828/5830/Bookmark-21/ 5800,5885/5890,5895, 5900,5900I, 5990,5995,/XC-1875/XC-2675/8233/ Document Centre 240/255/265/455/460/465/470/480/490, DocuTech 65, DocuTech 75, DocuTech 90, DocuPrint 65, DocuPrint 75, DocuPrint 90 ; WorkCen Pro 65/75/90; Copy Centre C65/C75/C90

Fuser Wick -4030/4197/4213/4215/4219/4220/MRP/4230/4505/4520/8810/7041/7042/3010/

 $5051/5321/3030/3050/3060, 8855 \ Fuser \ Roll - \ 5113/5114/5614/5380 DADF/5385 RDH$ 

## Section IV - Physical Data

Appearance/Odor:	Clear liquid / slight odor	Softening Range:	N.A.
<b>Boiling Point:</b>	149 °C	Melting Point:	N.A.
Solubility in Water:	Negligible	Specific Gravity (H <sub>2</sub> O=1):	0.98
<b>Evaporation Rate:</b>	<1 (ether=1)	Vapor Pressure (mm Hg):	<5
Vapor Density (Air=1):	N.A.	pH:	N.A.
Volatile:	N.A. % (Wt.) N.A. % (Vol.)		

	Section V - Fire and Explosion Data
Flash Point (Method Used):	>200 °F; >95 °C C.O.C.
Flammable Limits:	LEL: N.A. / UEL: N.A.
NFPA 704:	Health - 0, Fire - 1, Reactivity - 0
Extinguishing Media:	Foam, carbon dioxide, water spray.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing.

Fire and Explosion Hazards: None

Section VI -Reactivity Data			
Stability:	Stable		
Hazardous Polymerization:	Will Not Occur		
Hazardous Decomposition Products:	Silicone dioxide, carbon dioxide, and traces of incompletely burned carbon products.		
Incompatibility (Materials to Avoid):	Strong oxidizing materials.		

#### Section VII - Special Protection Information

<b>Respiratory Protection:</b>	None required when used as intended in Xerox equipment.
Eye Protection:	None required when used as intended in Xerox equipment.
Protective Gloves:	PVC or plastic gloves recommended.
Other:	None required when used as intended in Xerox equipment.

#### Section VIII - Special Precautions

Handling and Storage:	Use reasonable care and caution. Clean up spills completely as residue is slippery.
Conditions to Avoid:	None

#### Section IX- Spill, Leak, and Disposal Procedures

For Spills or Leakage:	Soak up with an absorbent material.
Waste Disposal Method:	Absorb liquid on vermiculite or other absorbent material. Dispose of in accordance with local, state,
	and federal regulations.

#### Section X - Transportation Information

DOT Proper Shipping Name:	N.A. (Not Regulated)	ID Number:	N.A.
Hazard Classification:	N.A.	Packing Group:	N.A.

600E74170

# REVERE CHEMICAL CO -- X-JT JOINT SEALANT -- 8030-00F028364

Product ID:X-JT JOINT SEALANT MSDS Date:02/08/1990 FSC:8030 NIIN:00F028364 MSDS Number: BRBXK === Responsible Party === Company Name: REVERE CHEMICAL CO Address:30875 CARTER Box:39518 City:SOLON State:OH ZIP:44139-3517 Country:US Info Phone Num: 800-321-1976 Emergency Phone Num: 800-255-3924 CAGE:GO229 === Contractor Identification === Company Name: REVERE CHEMICAL CO Address:30875 CARTER Box:39518 City:SOLON State:OH ZIP:44139-3517 Country:US Phone:800-321-1976 CAGE:GO229 Company Name: REVERE PRODUCTS CO Address:4529 INDUSTRIAL PKY Box:35311 City:CLEVELAND State:OH ZIP:44135-0311 Country:US Phone: 800-321-1976 CAGE: 31622 Ingred Name:GLYCIDOXYPROPYLTRIMETHYOXYSILANE CAS:2530-83-8 RTECS #:VV4025000 Fraction by Wt: 0.40% Ingred Name: DIBUTYLTIN DILAURATE CAS:77-58-7 RTECS #:WH7000000 Fraction by Wt: 0.50% Other REC Limits: 0.1 MG/CUM (SN) OSHA PEL:0.1 MG/CUM (SN) ACGIH TLV:0.1 MG/CUM, SN(SKIN) Ingred Name:SOLVENT NAPHTHA, PETROLEUM, LIGHT AROMATIC, HIGH FLASH AROMATIC NAPHTHA CAS:64742-95-6 RTECS #:WF3400000

Fraction by Wt: 5% OSHA PEL:25 PPM ACGIH TLV:25 PPM Ingred Name: CHLORINATED PARAFFIN, CHLOROALKANES \*93-1\* CAS:61788-76-9 Fraction by Wt: 5.00% Ingred Name: FREE ISOCYANATE Fraction by Wt: 1% Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYES/SKIN: IRRITATION. INHALATION: RESPIRATORY SYSTEM IRRITATION. ALLERGIC CONDITIONS MAY OCCUR IN INDIVIDUALS W/HIGH SENSITIVITY TO ISOCYANATES. THIS MAY RESULT IN ASTHMA LIKE CONDITIONS. CNS DEPRESS ION. LIVER/KIDNEY DAMAGE. INGESTION: MOUTH/THROAT/STOMACH IRRITATION. Explanation of Carcinogenicity:NONE Effects of Overexposure:SKIN: SENSITIZATION. DERMATITIS. INHALATION: PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. Medical Cond Aggravated by Exposure: CHRONIC DISEASES OF THE NOSE, THROAT, RESPIRATORY TRACT, CNS, LIVER OR KIDNEYS. First Aid:EYES: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINS. SKIN: WASH CONTAMINATED BODY AREA W/LARGE AMOUNTS OF WATER. WASH AFFECTED AREA W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING BY ARTIFICIAL RESUSCITATION. TREAT SYMPTOMATICALLY. INGESTION: DRINK 1 OR 2 GLASSES OF WATER TO DILUTE. DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES. Flash Point:115F Lower Limits:1% Upper Limits:7% Extinguishing Media: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, HALON 1211. Fire Fighting Procedures: USE FULL PROTECTIVE CLOTHING & EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS. IF WATER IS USED, FOG NOZZLES ARE PREFERRABLE. Unusual Fire/Explosion Hazard:WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP & POSSIBLE AUTO IGNITION OR EXPLOSION. Spill Release Procedures: EVACUATE PERSONNEL. VENTILATE AREA. CONTAIN & REMOVE W/INERT ABSORBENT MATERIAL & NON-SPARKING TOOLS. Handling and Storage Precautions: DON'T STORE OR USE NEAR HEAT, OR OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, & SOURCES OF IGNITION. Other Precautions: AVOID BREATHING SANDING DUST. PREVENT PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MISTS. DON'T HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ & UNDERSTOOD. DON'T WELD/FLAME-CU T AN EMPTY DRUM. EMPTY DRUMS REUSABLE.

Respiratory Protection:NIOSH/MSHA APPROVED AIRLINE TYPE RESPIRATOR Ventilation:LOCAL EXHAUST; HOODS Protective Gloves: NEOPRENE, NITRILE, RUBBER Eye Protection: SAFETY GLASSES W/SIDE SHIELDS Other Protective Equipment: DISPOSABLE OR IMPERVIOUS CLOTHING. Work Hygienic Practices: REMOVE & WASH CONTAMINATED CLOTHES BEFORE REUSE. WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM. Supplemental Safety and Health DON'T SMOKE IN ANY CHEMICAL HANDLING OR STORAGE AREA. FOOD OR BEVERAGES SHOULDN'T BE CONSUMED ANYWHERE NEAR PRODUCT. Vapor Density:>1 Spec Gravity:1.1 Solubility in Water:SLIGHT Appearance and Odor: GRAY LIQUID, MILD ODOR. Stability Indicator/Materials to Avoid:YES AMINES, ACIDS, HYDROXYL OR OTHER ACTIVE HYDROGEN COMPOUNDS. Stability Condition to Avoid: HEAT, ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAME, OTHER SOURCES OF IGNITION & HIGH TEMPERATURE. Hazardous Decomposition Products:CO, CO2, MONOMERIC, ISOCYANATE & TRACE OF HYDROGEN CYANIDE, NITRITE. Waste Disposal Methods: DISPOSAL SHOULD BE DONE IN ACCORDANCE W/FEDERAL, (40CFR PART 261), STATE & LOCAL ENVIRONMENTAL CONTROL REGULATIONS BEFORE ATTEMPTING CLEANUP. IF WASTE IS DETERMINED TO BE HAZARDOUS, USE LICENSED HAZAR DOUS WASTE TRANSPORTER & DISPOSAL FACILITY. Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever,

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## PREMIER INDUSTRIAL SUPPLY, INC.

**Product Name: XTRABOND 150 GENERAL PURPOSE SILICONE SEALANT** Date Issued: March 3, 2009

#### 1. Company Identification & Chemical Product

Product Brand Name: XtraBond 150 General Purpose Silicone Sealant **Product Use:** Sealant & Adhesive Proper DOT Shipping: Caulking & Glaziers, NOI **DOT Hazard Classification: NONE** 

**Company Contact Information** 

Emergency Telephone Number

Premier Industrial Supply, Inc. 1833 W. Calle De Pompas Phoenix, AZ 85085

CHEMTREC: 800-424-9300 (24 hours) Telephone: 866-512-4583

#### 2. Information on Ingredients

#### CHEMICAL NAME

Methyltriacetoxysilane Ethyltriacetoxysilane

CAS NUMBER	<u>WEIGHT %</u>
4253-34-3	<5%
17689-77-9	<5%

#### 3. Hazards Identification

#### **Emergency Overview**

Heavy Paste with mild odor, various colors: Grey, Beige, Almond Can Cause Skin & Eye Irritation

Combustible Material. In case of fire, use foam, dry chemical, CO2

#### **First Aid Measures**

#### **ROUTE OF ENTRY**

Inhalation (breathing); eye & skin contact

CAUTION: Can cause skin & eye irritation

## SYMPTOMS OF EXPOSURE

Inhalation: Material is not likely to present an inhalation hazard at ambient conditions. However if material is heated or high vapor/aerosol concentrations are attainted, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination. Overexposure may cause drowsiness and irritation.

# **Eye Contact:** Can cause eye irritation with direct contact. Symptoms include stinging, tearing, redness and swelling of eyes.

- **Skin Contact:** A single short exposure can cause skin irritation. Symptoms may include redness and burning of skin
- **Ingestion:** Low ingestion hazard in normal use.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No Known Applicable information

#### **CHRONIC EFFECTS**

Over exposure to a component of this material has been suggested as a cause of liver abnormalities in laboratory animals.

CARCINOGEN: NONE TERATOGENS: NONE REPRODUCTIVE TOXINS: NONE

#### 4. FIRST AID MEASURES

Inhalation:	Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor/mist/dust/fumes are generated, care should be taken to prevent inhalation. Remove subject to fresh air. Get Medical attention if ill effects persist
Eye Contact:	Immediately flush eyes with copious amounts of water for 15 minutes. Get medical attention if irritation develops.
Skin Contact:	Immediately wash affected areas with large amounts of soap & water. Continue for 15 minutes. Get Medical attention if irritation develops.
Ingestion:	Do not induce vomiting or give anything by mouth. Get immediate medical attention.
Comments:	Treat according to person's condition and specifics or exposure.

## 5. FIRE FIGHTING MEASURES

Flash Point & Method.....>212 F

#### **GENERAL HAZARD:**

This product is combustible.

#### AUTO-IGNITION TEMPERATURE: Not Determined

#### **EXTINGUISHING MEDIA**

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide, dry chemicals or water spray. Water can be utilized to cool containers exposed to fires.

#### FLAMMABILITY LIMITS in AIR

Not Determined

#### SPECIAL FIREFIGHTIN INSTRUCTIONS

Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determined the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

#### UNUSAL FIRE or EXPLOSION HAZARDS:

None

#### HAZARDOUS DECOMPOSITION PRODUCT:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:

> Carbon oxides and traces of incompletely burned carbon compounds Formaldehyde Silicone Dioxide

Depending on color, hazardous decomposition products may also include:

Hydrogen Nitrogen oxides Metal oxides Sulfur oxides

## 6. ACCIDENTAL RELEASE MEASURES

**Containment/Clean Up:** Observe all personal protective equipment recommendations as described in Section 8. Scrape all spilled materials for disposal. This material is not classified as a hazardous waste per 40 CFR 261. State and local laws may impose regulatory restrictions.

# 7. HANDLING AND STORAGE

**Personal Pre Cautionary Measures:** Avoid Breathing vapors in top of shipping containers. Keep containers closed. Use with adequate ventilation. Avoid contact with skin and clothing. Wash thoroughly after handling. Observe all PPE Suggestions in section 8.

See Section 8 for information about personal protective equipment for spills.

#### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

#### COMPONENT EXPOSURE LIMITS

Component Name: Ethyltriacetoxysilane CAS Number: 17689-77-9 Exposure Limits: See acetic acid comments

**Component Name:** Methyltriacetoxysilane **CAS Number:** 4253-34-3 **Exposure Limits:** See acetic acid comments

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to controlled exposures within guideline of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

#### **COMPONENT EXPOSURE LIMITS- Almond only**

**Component Name:** Dimethysiloxane, trimethoxsilyl-termiated **CAS Number**: PMN871176 **Exposure Limits:** See methyl alcohol comments

Component Name: Aluminum CAS Number: 7429-90-5 Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust, 5 mg/m3 respirable dust ACGIH TLV: TWA 10mg/m3

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to controlled exposures within guideline of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

#### **COMPONENT EXPOSURE LIMITS- Aluminum only**

Component Name: Aluminum CAS Number: 7429-90-5 Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust, 5 mg/m3 respirable dust ACGIH TLV: TWA 10mg/m3

#### **Engineering Controls:**

Local Ventilation: Recommended General Ventilation: Recommended

Eye Production: Wear safety glasses with side shields as a minimum

**Skin Protection:** Impervious gloves are suggested. Wash at mealtimes and end of shift. Chemical protective gloves are recommended

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations of hazardous ingredients below limits in Section 2 of this MSDS, then a NIOSH/HSHA approved organic vapor respirator should be used.

**Suitable Respirator** Respiratory protection is not needed under ambient conditions. If vapor/mist/dust/fumes are generated when material is heated or handled, the following is advised: general and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 910.134)

Gloves: Nitrile Gloves

**Clothes:** Wear clothing that will protect the skin from exposure to this chemical.

#### **ENGINEERING CONTROLS**

Use local exhaust or general dilution ventilation system.

#### PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS:

Eyes: Use full face respirator

**Skin:** Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

**Inhalation/Suitable Respirator:** Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910. 134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

#### **PRECAUTIONARY MEASURES:**

Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.

#### **COMMENTS:**

Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. When heated to temperatures above 150c in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

#### NOTE:

These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>VOC Content</b> :	36 grams/liter	PH:	N/A
<b>Boiling Point:</b>	N/A	Water Solubility:	N/A
Vapor Density:	N/A	Freeze Point:	N/A
Odor:	Acetic Acid Odd	or State:	Paste
Color:	Various	Specific Gravity:	1.032
Melting Point:	N/A	<b>Reactivity to Water:</b>	N/A

# **10. STABILITY AND REACTITY**

#### **INCOMPATIBILITIES:**

Oxidizing & Acid can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

#### **CHEMCIAL STABILITY:**

Stable

#### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Will not occur

#### **CONDITIONS TO AVOID:**

None

## **11. TOXICOLOGICAL INFORMATION**

#### SPECIAL HAZARD INFORMATION ON PRODUCT:

No Known applicable information

#### **12. ECOLOGICAL INFORMATION**

#### **ENVIRONMENTAL FATE & DISTRIBUTION**

Complete information is not yet available

#### **ENVIRONMETAL EFFECTS**

Complete information is not yet available

#### FATE & EFFECTS in WASTE WATER TREATMENT PLANTS

Complete information is not yet available

## **13. DISPOSAL CONSIDERATIONS**

#### **RCRA WASTE CODE**

Not Regulated. Observed all applicable federal, state, and local regulations. Material is not classified as a hazardous waste per 40 CFR 261.

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

# **14. TRANSPORT INFORMATION**

Marine Transport None DOT (usa): Not subject to DOT DOT Hazard Classification: None UN/NA Number: Not Applicable Label Required: None

# **15. REGULARTORY INFORMATION**

#### OSHA HAZARD COMMINICATION STADARD (29 CFR 1910.1200)

Comply

#### TSCA STATUS

All Chemical substance in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substance

#### SARA TITLE III EXTREMELY HAZARDOUS SUBSTANCE (302)

CHEMICAL NAME	TPQ (lbs)	RQ (lbs)/ (kg)
N/A	N/A	N/A

#### SARA TITLE III CERCLA HAZARDOUS SUBSTANCE (304)

CHEMICAL NAME	TPQ (lbs)	RQ (lbs)/ (kg)
N/A	N/A	N/A

#### SARA TITLE III SECTION 312 HAZARD CLASS

YES Acute YES Chronic NO Fire NO Pressure NO Reactive

#### SARA TITLE III TOXIC CHEMICALS (313) DEPENDING UPON COLOR

CHEMICAL NAME	CASE #	%
Aluminua hydrate	21645-51-2	N/A
Aluminum	7429-90-5	
Antimony chromium manganese titanium brown rutile	6991-68-0	

#### WORK PLACE HAZARDOUS MATERIAL INFORMATION SYSTEMS (CRP Section 33)

This product has been classified according to the hazard criteria of the Controlled Products Regulation and the MSDS contains all required information.

#### STATE REGULATION

**California Proposition 65** 

None Known

This product contains the following chemicals known to the State of California, under the Safe Drinking and Toxic Enforcement Act of 1986 as being known to cause cancer, birth defects and reproductive harm.

#### Massachusetts Right to Know List:

Silica, amorphous, alumina hydrate, aluminum, barium sulfate, carbon black, iron oxide, Titanium Dioxide

#### Pennsylvania Right to Know List:

Dimethyl siloxane, hydroxyl-termiated, Dydrotreated middle petroleum distillates, silica, amorphous. Depending upon color, may also contain, Alumina hydrae, aluminum, antimony chromium manganese titanium brown rutile, barium sulfate, black iron oxide, carbon black, CI Pigment Blue 29, Dimethyl siloxane, triimethylsilyl-terminated, iron hydroxide oxide, iron oxide, magnesium ferrite, mineral oil, polydimethysiloxane, tetrabenzo-5-10-20diazaporphyrinephthalocyanine, titanium dioxide, yellow iron oxide.

#### New Jersey Right to Know List:

Dimethyl siloxane, hydroxyl-termiated, Ethyltriacetoxysilane, Hydrotreated middle petroleum distillates, silica, amorphous. Depending upon color, may also contain, Alumina hydrae, aluminum, antimony chromium manganese titanium brown rutile, barium sulfate, black iron oxide, carbon black, CI Pigment Blue 29, Dimethyl siloxane, triimethylsilyl-terminated, iron hydroxide oxide, iron oxide, magnesium ferrite, mineral oil, polydimethysiloxane, tetrabenzo-5-10-20-diazaporphyrinephthalocyanine, titanium dioxide, yellow iron oxide.

## **16. OTHER INFORMATION**

**Disclaimer**: The opinions expressed herein are those of qualified experts within Premier Industrial Supply Inc. We believe the information contained herein is current as the date of this MSDS. Since the use of the product is not within the control of Premier Industrial Supply Inc. it is the user's obligation to determine the conditions of safe use.

PREPARED BY: MSDS #: DATE PREPARED: DATE ISSUED: Premier Industrial Supply Inc. XTRABOND150 March 3, 2009 March, 2009



# Safety Data Sheet Spartan Chemical Company, Inc.

Revision Date: 29-Jul-2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name: Product Number: Recommended Use: Uses Advised Against:	<b>XTRACTION II</b> 3096 Carpet cleaner For Industrial and Institutional Use Only
Manufacturer/Supplier:	Spartan Chemical Company, Inc. 1110 Spartan Drive Maumee, Ohio 43537 USA 800-537-8990 (Business hours) www.spartanchemical.com
24 Hour Emergency Phone Number Medical Emergency/Information Transportation/Spill/Leak:	
	2. HAZARDS IDENTIFICATION
<b>GHS Classification</b> Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation:	Category 1 Category 1
<u>GHS Label Elements</u> Signal Word: Symbols:	Danger
Hazard Statements: <u>Precautionary Statements:</u> Prevention:	Causes severe skin burns and serious eye damage. Do not breathe mist, vapors or spray. Wash hands and any exposed skin thoroughly after handling. Wear protective gloves. Wear eye / face protection. Wear protective clothing.
Response: -Eyes	<b>IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-Skin	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
-Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
-Ingestion: -Specific Treatment:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
Storage: Disposal:	Store locked up. Dispose of contents and container in accordance with local, state and federal regulations.
Hazards Not Otherwise Classified:	Not Applicable

#### **Other Information:**

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
alcohol ethoxylate	68439-46-3	1-5
sodium carbonate	497-19-8	1-5
2-butoxyethanol	111-76-2	1-5
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5
sodium alkylnaphthalenesulfonate	PROPRIETARY	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

#### **4. FIRST AID MEASURES**

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Skin Contact:	Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
Note to Physicians:	Treat symptomatically.
	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

ous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.	
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Protective Equipment and	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full
Precautions for Firefighters:	protective gear. Cool fire-exposed containers with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with
-	non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)
	and place in container for disposal according to local / national regulations (see Section 13).

# 7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
2-butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Engineering Controls:		t, fumes, gas, vapors or mists w onal exposure limits, local exhau	
Personal Protective Equipment Eye/Face Protection: Skin and Body Protection: Respiratory Protection:			
General Hygiene Considerations:	3 should be considered.		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Light green
Odor:	Floral fragrance
pH:	11.3-11.8
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.049
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

# **10. STABILITY AND REACTIVITY**

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition	May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.
Products:	

# **11. TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
-Skin Contact:	Pain, redness, blistering and possible chemical burn.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	6
Product Information:	Data not available or insufficient for classification.
Chronic Toxicity:	May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
Target Organ Effects:	Blood. Central nervous systemEyes. hematopoietic system. kidney. Liver. Respiratory SystemSkin.

#### Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral):	9234 mg/kg
ATEmix (dermal):	30069 mg/kg
ATEmix (inhalation-dust/mist):	34.4 mg/l
ATEmix (inhalation-vapor):	108.5 mg/l

#### **Component Acute Toxicity Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
alcohol ethoxylate 68439-46-3	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	Not Available
sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	Not Available	Not Available
2-butoxyethanol 111-76-2	= 470 mg/kg(Rat)	= 2270 mg/kg (Rat)= 220 mg/kg ( Rabbit)	= 2.21 mg/L (Rat)4 h = 450 ppm (Rat)4 h
tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	Not Available	265: 48 h Daphnia magna mg/L EC50
2-butoxyethanol 111-76-2	Not Available	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	Not Available	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
tetrasodium ethylenediaminetetraacetate 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	Not Available	610: 24 h Daphnia magna mg/L EC50

#### Persistence and Degradability: Bioaccumulation:

No information available. No information available.

Other Adverse Effects:

No information available.

#### **13. DISPOSAL CONSIDERATIONS**

#### **Disposal of Wastes: Contaminated Packaging:**

Dispose of in accordance with federal, state and local regulations. Dispose of in accordance with federal, state and local regulations.

### **14. TRANSPORT INFORMATION**

**15. REGULATORY INFORMATION** 

#### TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### **SARA 313**

This product contains the following listed substances:

#### 2-butoxvethanol

CAS No 111-76-2 applies to R-(OCH2CH2)n-OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate, Chemical Category N230

> Yes Yes

No

No

No

SARA 311/312 Hazard Categories	
Acute Health Hazard:	
Chronic Health Hazard:	
Fire Hazard:	

Sudden release of pressure hazard:

#### **California Proposition 65**

**Reactive Hazard:** 

This product is not subject to warning requirements under California Proposition 65.

#### **16. OTHER INFORMATION**

NFPA	Health Hazards: 3	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 3*	Flammability: 0	Physical Hazards: 0	
Devision Deter		16		

29-Jul-2015

**Revision Date: Reasons for Revision:** 

Section 14 and 15

**Disclaimer:** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or guality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**

# 1 Gal Camco -20 Windshield

# PRODUCT NAME: 1 Gal Camco -20 Windshield

NFPA CODES:	Health	1
	Flammability	3
	Reactivity	0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

# PRODUCT CODE: 30907

======= SECTION I - MANUFACTURER IDENTIFICATION =========

# MANUFACTURER'S NAME: Camco Manufacturing, Inc. ADDRESS : 121 Landmark Drive Greensboro, NC 27409

EMERGENCY PHONE : 1-800-535-5053 DATE REVISED : 11/23/2004 INFORMATION PHONE : 336-668-7661 NAME OF PREPARER : CAMCO MANUFACTURING INC. 121 LANDMARK DR. GREENSBORO, NC 27409 1-800-334-2004

## ====== SECTION II - COMPOSITION / INFORMATION ON MATERIALS=======

REPORTABLE COMPONENTS	-		RESSURE Hg @ TEMf	
Methanol	67-56-1	96.1	20C	<35

Exposure Guidelines: Methanol <u>OSHA STD -</u> 8HR TIME WEIGHTED AVG(TWA) 200PPM

## ====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ========

BOILING RANGE: 170 – 190 F VAPOR DENSITY: Not Determined SOLUBILITY IN WATER: Completely Soluble APPEARANCE AND ODOR: Clear, blue liquid, mild alcohol odor SPECIFIC GRAVITY (H2O=1): 0.9561 @ 70° F EVAPORATION RATE: Not Determined

# 1 Gal Camco -20 Windshield

# ======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ========

FLASH POINT: 98 F METHOD USED: TCC

**EXPLOSIVE LIMITS FOR 100% METHANOL -** LOWER: 6% UPPER: 36%

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, water spray or foam. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Handle as flammable liquid. Methanol vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near container, even if it is empty.

# \*\*\*Flammable\*\*\*

**STABILITY:** Stable

**CONDITIONS TO AVOID: Excessive heat** 

**INCOMPATIBILITY (MATERIALS TO AVOID):** Reactive metals such as aluminum and magnesium, strong acids, strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION: Do not occur

**INHALATION:** Breathing of vapor or mist is possible. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts can be

# 1 Gal Camco -20 Windshield

harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

**EYE:** May cause mild irritation. Symptoms include stinging, tearing, and redness.

**SKIN:** May cause mild irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin.

**INGESTION:** Swallowing this material may be harmful.

**SYMPTOMS OF EXPOSURE:** Symptoms of exposure may include: nausea, vomiting, diarrhea, irritation (nose, throat, airways), dizziness, drowsiness, weakness, fatigue, headache, unconsciousness, leg cramps, pain in the abdomen and lower back, blurred vision, shortness of breath, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), visual impairment (including blindness).

HEALTH HAZARDS (ACUTE AND CHRONIC): No data

**CARCINOGENICITY: No** 

NTP CARCINOGEN: No

IARC MONOGRAPHS: No

**OSHA REGULATED:** No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

# **EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Move individual to fresh air. If symptoms persist seek medical attention. If breathing is difficult administer oxygen provided a qualified operator is present.

**EYE CONTACT:** Flush immediately with large quantities of water for 15 minutes, lifting eye lids to ensure that all surfaces are flushed. Seek medical attention.

**SKIN:** Remove contaminated clothing and wash contaminated skin with large amounts of soap and water. If irritation persists, get medical attention. Launder clothing before reuse.

**INGESTION:** Seek medical attention immediately. If individual is conscious, they may dilute by drinking water. If individual is drowsy or unconscious, do not give anything by

# 1 Gal Camco -20 Windshield

mouth. Under either circumstance, do not leave the individual unattended if at all possible. Contact a physician, medical facility, or poison control center immediately.

# ====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =======

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Eliminate all ignition sources, such as flames, hot surfaces, and sources of electrical, static or frictional sparks. Absorb liquid with absorbent material. If necessary, contain spill by diking.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with all applicable local, state and federal regulations.

# PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

No smoking or open flame in storage use or handling areas. Avoid storage with incompatible materials.

# **OTHER PRECAUTIONS**

Store in closed containers in a cool, dry, well ventilated area. Keep away from sparks and open flame.

# 

# **RESPIRATORY PROTECTION**

Use an approved NIOSH approved respirator when airborne concentrations exceed exposure limits.

**VENTILATION:** Provide sufficient ventilation to maintain airborne concentrations, below exposure limits.

**PROTECTIVE GLOVES:** Wear appropriate impermeable gloves

# **EYE PROTECTION:**

Use chemical safety glasses, goggles, or faceshields for eye protection.

# 1 Gal Camco -20 Windshield

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** It is the responsibility of the user to determine the proper protective equipment that is needed based on how the product will be used.

# **WORK/HYGIENIC PRACTICES:**

Wash thoroughly after handling.

# 

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.

# SIGMA-ALDRICH

sigma-aldrich.com

# SAFETY DATA SHEET

Version 4.3 Revision Date 04/02/2014 Print Date 06/25/2014

# **1. PRODUCT AND COMPANY IDENTIFICATION**

1.1	<b>Product identifiers</b> Product name	:	Xylene Cyanol FF
	Product Number Brand REACH No.	:	X4126 Sigma A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
	CAS-No.	:	2650-17-1
1.2	Relevant identified uses of	f th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the	he	safety data sheet
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052
1.4	Emergency telephone nun	nbe	er

Emergency Phone # : (314) 776-6555

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Synonyms	:	XC Cyanol FF Acid blue 147
Formula	:	C <sub>25</sub> H <sub>27</sub> N <sub>2</sub> NaO <sub>6</sub> S <sub>2</sub>
Molecular Weight	:	538.61 g/mol
CAS-No.	:	2650-17-1
EC-No.	:	220-167-5

#### **Hazardous components**

Component	Classification	Concentration			
Sodium hydrogen 4-[[4-(ethylamino)-m-tolyl][4-(ethylimino)-3-methylcyclohexa-2,5-dien-1-					
ylidene]methyl]benzene-1,3-disulphonate					
Skin Irrit. 2; Eye Irrit. 2A; -					
	STOT SE 3; H315, H319,				
	H335				

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# **4.3** Indication of any immediate medical attention and special treatment needed no data available

#### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

#### **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. For precautions see section 2.2.

**7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: dark green
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: 295 °C (563 °F)
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	soluble
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available
	<b>her safety information</b> data available	

#### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

9.2

- **10.3** Possibility of hazardous reactions no data available
- **10.4** Conditions to avoid no data available
- **10.5** Incompatible materials Strong oxidizing agents

#### **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

#### Skin corrosion/irritation

no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

# Germ cell mutagenicity

no data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

no data available

no data available

**Specific target organ toxicity - single exposure** May cause respiratory irritation.

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

#### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

no data available

- 12.2 Persistence and degradability no data available
- 12.3 **Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

no data available

### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

# **15. REGULATORY INFORMATION**

REACH No.

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium hydrogen 4-[[4-(ethylamino)-m-tolyl][4-(ethylimino)-3- methylcyclohexa-2,5-dien-1-ylidene]methyl]benzene-1,3- disulphonate	2650-17-1	

#### New Jersey Right To Know Components

	CAS-No.	
-3-	2650-17-1	

**Revision Date** 

Sodium hydrogen 4-[[4-(ethylamino)-m-tolyl][4-(ethylimino)-3methylcyclohexa-2,5-dien-1-ylidene]methyl]benzene-1,3disulphonate

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

#### **HMIS Rating**

Health hazard:	2	
Chronic Health Hazard:		
Flammability:	0	
Physical Hazard	0	
NFPA Rating		
Health hazard:	2	
Fire Hazard	Ο	

# Fire Hazard:0Reactivity Hazard:0

#### Further information

Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 4.3

Revision Date: 04/02/2014

Print Date: 06/25/2014

# SDS #: 855.00

Revision Date: January 16, 2014

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Yeast Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261 Pictograms CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word N/A **SECTION 2 — HAZARDS IDENTIFICATION**

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

Product should be treated as a chemical and is not for consumption as it has been stored with other nonfoodgrade chemicals.

#### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Yeast	None established	Unspecified	Unspecified	

#### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

When heated to decomposition, may emit toxic fumes. In case of fire: Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

None established

NFPA CODE

Yeast

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic Miscellaneous.

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Light tan fine powder granules. Faint odor of beer. Soluble: Slightly in water. Brewers yeast is nonviable, and Bakers yeast is freeze-dried, viable for baking, culturing. Not for human consumption.

# SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Fair, will expire.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A. ORL-RAT  $LD_{50}$ : N.A. IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

#### N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

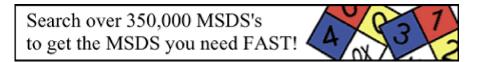
Not listed.

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** January 16, 2014

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# **Material Safety Data Sheet**

# **SECTION I - Material Identity**

Item Name	
Part Number/Trade Name	YELLOW 77 WIRE PULLING LUBRICANT
National Stock Number	9150P31358
CAGE Code	30119
Part Number Indicator	A
MSDS Number	194628
HAZ Code	В

### **SECTION II - Manufacturer's Information**

Manufacturer Name	IDEAL INDUSTRIES INC
Street	BECKER PL
City	SYCAMORE
State	IL
Country	US
Zip Code	60178
Emergency Phone	815-895-5181
Information Phone	815-895-5181

# **MSDS** Preparer's Information

MSDS Preparer Name		
Date MSDS Prepared/Revised		
Date of Technical Review		
Active Indicator		

## **Alternate Vendors**

AND HILL ELECTRICAL CO

RONALD K. PETERSEN

230CT02 210CT92

Υ

# **SECTION III - Physical/Chemical Characteristics**

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	N1
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	YELLOW CREAMY PASTE, SLIGHT ODOR
Boiling Point	212F/100C
Melting Point	N/K
Vapor Pressure	1.0
Vapor Density	N/K
Specific Gravity	0.98
Decomposition Temperature	UNKNOWN
Evaporation Rate	<1.0 (WATER=1)
Solubility in Water	MODERATE
Percent Volatiles by Volume	90
Chemical pH	7-8.5
Corrosion Rate	UNKNOWN
Container Type	Ν
Container Pressure Code	1
Temperature Code	4
Product State Code	S

# **SECTION IV - Fire and Explosion Hazard Data**

Flash Point Method	COC	
Lower Explosion Limit	N/A	
Upper Explosion Limit	N/A	
Extinguishing Media		

		USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS
Special	Fire Fighting Procedures	SELF-CONTAINED RESPIRATORY PROTECTION SHOULD BE PROVIDED FOR FIRE FIGHTERS. KEEP FIRE- EXPOSED CONTAINERS COOL WITH WATER
Unusual	Fire/Explosion Hazards	NONE

YES

NONE

NO

AVOID STRONG OXIDIZERS

CARBON MONOXIDE

EXCESSIVE HEAT MAY CAUSE THE RELEASE OF CARBON DIOXIDE,

AVOID PROLONGED STORAGE AT

# **SECTION V - Reactivity Data**

Stability Stability Conditions to Avoid Materials to Avoid Hazardous Decomposition Products

Hazardous Polymerization Polymerization Conditions to Avoid

LD50 - LD50 Mixture

# TEMPERATURES ABOVE 120F Kture ORAL RAT LD50 IS N/K

#### SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	TEMP EYE DISCOMFORT MAY RESULT WITH PROLONGED CONTACT. IF MATTERIL IS USED IN EXTREME HEAT (120F), PROLONGED AND REPEATED EXPOSURE COULD POSE A RISK OF PULMONARY DISEASE. EXPOSURE BELOW MIST TLV (5 MG/M3) APPEARS TO BE WITHOUT SIGNIFICANT HEALTH RISK
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	SUPPLIER DID NOT ADDRESS THIS FIELD. HMIS COULD NOT FIND REFERENCE IN ANY LIST OF CARCINOGENS
Symptoms of Overexposure	IRRITATION OF EYES AND SKIN
Medical Cond. Aggrevated by Exposure	NO INFORMATION GIVEN ON MSDS BY SUPPLIER
Emergency/First Aid Procedures	EYE: FLUSH AREA WITH COPIOUS AMOUNTS OF WATER. SKIN: FLUSH AREA WITH COPIOUS AMOUNTS OF WATER. INGESTED: INDUCE

VOMITING. CONSULT PHYSICIAN OR LOCASL POISON CONTROL CENTER. INHALED: NO INFORMATION GIVEN ON MSDS BY SUPPLIER

# SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	WIPE UP OR SHOVEL OR VACUUM SPILLED MATERIAL. USE ABSORBENT MEDIA IF REQUIRED. CLEAN UP SPILLS IMMEDIATELY AS THEY CAN BE SLIPPERY AND DANGEROUS
Neutralizing Agent	NO INFORMATION GIVEN ON MSDS BY SUPPLIER
Waste Disposal Method	DISPOSE OF AS SOLID LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS
Handling and Storage Precautions	RE AT TEMPERATURES BETWEEN 40F AND 120F. KE
Other Precautions	KEEP MATERIAL AWAY FROM CHILDREN AND PETS

# SECTION VIII - Control Measures

Respiratory Protection Ventilation	NORMALLY NONE REQUIRED MECH(GEN)OR LOCAL EXHAUST RECOMMENDED IN CLOSED AREAS. OTHER TYPES ARE "NONE REQUIRED"
Protective Gloves	NEOPRENE
Eye Protection	SAFETY GLASSES OR SPLASH GOGGLES
Other Protective Equipment	EYE FOUNTAIN IN WORK AREA IS RECOMMENDED
Work Hygenic Practices	NO INFORMATION GIVEN ON MSDS BY SUPPLIER
Supplemental Health/Safety Data	NONE
Disposal Code	0

## SECTION IX - Label Data

Protect Eye	YES
Protect Skin	YES
Protect Respiratory	NO
Chronic Indicator	NO
Contact Code	SLIGHT
Fire Code	UNKNOWN

file://jimepicpc/Users/Public/Epic%20Environmental%20Services%20(USE)/Product%20... 6/2/2016

Health Code	UNKNOWN
React Code	UNKNOWN
SECTION X - Transportation Data	
Container Quantity	1
Unit of Measure	QT

# **SECTION XI - Site Specific/Reporting Information**

Volatile	Organic	Compounds	(P/G)	0
Volatile	Organic	Compounds	(G/L)	0

# **SECTION XII - Ingredients/Identity Information**

Ingredient	#	01
Ingredient	Name	WATER
CAS Number		7732185
Percent		90
Ingredient	#	02
Ingredient	Name	PARAFFIN WAX
CAS Number		64742434
Percent		5
Ingredient	#	03
Ingredient	Name	PETROLATUM
CAS Number		8009038
Percent		3
Ingredient	#	04
Ingredient	Name	NAPTHENIC MINERAL OIL
CAS Number		64742536
Percent		3
Ingredient	#	05
Ingredient	Name	POLYETHYLENE GLYCOL ETHER
CAS Number		9005087
Percent		4
Ingredient	#	06
Ingredient	Name	ETHOXYLATED TALLOW AMINE
CAS Number		61791444
Percent		1
Ingredient	#	07
Ingredient	Name	PERFUME
CAS Number		25265718
Percent		0.1
Ingredient	#	08
Ingredient	Name	

		ACRYLAMIDE SODIUM ACRYLATE COPOLYMER W/ TRIDECETH-6
CAS Number		8042475
Percent		1
Ingredient	#	09
Ingredient	Name	ACRYLAMIDE SODIUM ACRYLATE COPOLYMER W/ TRIDECETH-6
CAS Number		24838918
Percent		1
Ingredient	#	10
Ingredient	Name	1,3-PROPANEDIOL, 2-BROMO-2- NITRO-
CAS Number		52517
Percent		0.1
Ingredient	#	11
Ingredient	Name	YELLOW PIGMENT
CAS Number		6358312
Percent		0.1



# **Material Safety Data Sheet**

	5-HELP (4357) peommercial.com	matori		., 2414 (	
		Section 1. Chemic	al Product and	Company Ident	ification
		Product name	High Traf	fic Floor Finish	
		Product code	ZU0812		
		Date of issue	11/08/07	Supersedes	
		Emergency Telephon			
		For MSDS Informati Compliance Services 4			
		<b>For Medical Emerger</b> INFOTRAC: (877) 54 Recorded		e - All Calls	
		<b>For Transportation E</b> CHEMTREC: (800) 4 In the District of Colum	24-9300 - All Ca		
		Prepared By Compliance Service 1420 Seaboard Indu Atlanta, GA 30318			
Section 2. Ha	zards Identification				
Emergency ov		*Hazard Determination Syst	em (HDS): Health, Flam	mability, Reactivity	
MAY BE HARN NOTE: MSDS dat	AND SKIN IRRITATION. MFUL IF ABSORBED THRO ta pertains to the product as deliv	ered in the original shipping c	ontainer(s). Risk	of adverse effects an	e lessened by follo
	precautions, including the use of				
Acute Effects Eyes C	Routes of Entry Causes eye irritation. Inflammat	Skin contact. Eye cont		tering and itching	
Skin C	Causes eye initiation. May be h haracterized by itching, scaling,	armul if absorbed through th	-	• •	
Inhalation In	nhalation of high concentrations izziness, light-headedness, head	s of vapor may affect the cen		em. Can cause	
Ingestion H	larmful if swallowed. Ingestion	n may cause nausea, weaknes	s and central ner	vous system effects	
Chronic effect	Repeated or prolonged	exposure to the substance ca contact with irritants may ca	ause dermatitis.	ge to kidneys, liver	
Carcinogenicit	y Ingredients: Not listed as care Additional Infor	cinogen by OSHA, NTP or I mation: See Toxicological Inf		11)	
Section 3. Co.	mposition/Information on I	ngredients			
lame of Hazardou	-	-		CAS number	<u>% by Weight</u>
	GLYCOL METHYL ETHER; THOXY)-ETHANOL; diethyld			34590-94-8 111-90-0	1 - 5 1 - 5
Section 4. First	st Aid Measures				
Eye Contact	Immediately flush eyes with remove any contact lenses.	Continue to rinse for at least	10 minutes. If in	ritation persists, get	medical attentior
Skin Contact	Rinse with plenty of running minutes. Wash clothing before				inse for at least 10

Inhalation Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.

Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Product cod	le ZU0812	Material Safety	y Data Sheet	Product Name High Traffic Floor Finish
Section 5. F	ire Fighting Me	asures	National Fire Protecti	ion Association (U.S.A.)
Flash Point	None.			0
Flammable L	<b>_imits</b> Not appli	icable.	$\mathbf{<}$	$\mathbf{y}$
Flammability	Non-flan	nmable.		
Fire hazard	No speci	fic hazard.		
Fire-Fighting	No speci	al precautions or equipment.		
Procedures		* * *		
Section 6. A	Accidental Relea	ase Measures		
Spill Clean		without risk. Move containers fr an inert dry material and place in		ute with water and mop up if water-soluble or aste disposal container.
Section 7. H	landling and St	orage		
Handling		noking. Do not get in eyes or on a		Workers should wash hands and face before eating, Use with adequate ventilation. Do not ingest. Do
Storage	have been opene		l kept upright to pr	closed and sealed until ready for use. Containers th revent leakage. Protect from freezing. Store betwee
Section 8. E	xposure Contro	ols/Personal Protection		
Product nar	ne	Exposu	<u>ire limits</u>	
Dipropylene Gly	col Methyl Ether		LV (United States, 20	003). Skin
			00 ppm 8 hour(s). 50 ppm 15 minute(s).	
			EL (United States, 20 00 ppm 8 hour(s).	003). Skin
Personal Pr	otective Equipr			
Eyes		with side-shields		
Body		or repeated handling, use the fol	lowing type of	
Poppirator	-	e, Neoprene, latex rubber tion is adequate if there is a risk o	of vanor huild ur	
· ·	•	*	or vapor ound-up.	
Section 9. P	hysical and Ch	nemical Properties		
Physical Sta	-			<b>Color</b> Milky-white, Translucent.
рН	8.0 - 9.0			Odor Characteristic.
Boiling Poir				por Pressure Not determined.
Specific Gra Solubility		er = 1) ble in the following materials: co		apor Density Not determined.
Solubility	and hot wa	-		Solution Nate Not determined.
			VOC	(Consumer) 64 (g/l). 0.54 lb/gal 6.3%
Section 10.	Stability and Re	eactivity		
Stability and	Reactivity	The product is stable.		
ncompatibil		Reactive or incompatible with	the following mat	terials: oxidizing materials.
Hazardous P	olymerization	Will not occur.		
	Decomposition	Products Under normal cond produced.	itions of storage a	nd use, hazardous decomposition products should no
		A		
Hazardous D	Toxicological I	nformation		
Hazardous D		nformation		
Hazardous D Section 11. Acute Toxic		nformation Result	Species	Dose Exposure
Hazardous D Section 11. Acute Toxic Product/ing	:ity	<b>Result</b> LD50 Dermal	Rabbit	13000 mg/kg -
Hazardous D Section 11. Acute Toxic Product/ing Dipropylene Gly	<u>ity</u> redient name	Result		5000
Hazardous D Section 11. Acute Toxic Product/ing Dipropylene Gly	redient name	<b>Result</b> LD50 Dermal LD50 Oral LD50 Dermal LD50 Oral	Rabbit Rat Rabbit Rat	13000 mg/kg - 5220 mg/kg - 9143 mg/kg - 10502 mg/kg -
Hazardous D Section 11. Acute Toxic Product/ing Dipropylene Gly	redient name	<b>Result</b> LD50 Dermal LD50 Oral LD50 Dermal	Rabbit Rat Rabbit Rat Mouse	13000 mg/kg - 5220 mg/kg - 9143 mg/kg -

Product code ZU0812

Material Safety Data Sheet

No known significant effects or critical hazards.

#### Section 12. Ecological Information

Environmental Effects

Aquatic Ecotoxicity

Not available.

#### Section 13. Disposal Considerations

#### Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Non-regulated waste

#### Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	None.	Not regulated.	Not applicable	-	
TDG Classification	None.	Not regulated.	Not applicable	-	
IMDG Class	Not available.	Not available.	Not available.	-	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

**CAS** number

**Concentration** 

PG\* : Packing group

#### Section 15. Regulatory Information

#### **U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Diethylene Glycol Monoethyl Ether

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monoethyl Ether

All Components of this product are listed or exempt from listing on TSCA Inventory.

#### **State Regulations**

California Prop
 65
 WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Ethylene Glycol Monoethyl Ether

#### Canada

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (Toxic).

#### Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.

Zinc Carbonate Material Safety Data Sheet Zinc carbonate ACC# 25330 Section 1 - Chemical Product and Company Identification MSDS Name: Zinc carbonate Catalog Numbers: AC612365000, Z30-500 Synonyms: Zinc carbonate (1:1); Zinc Monocarbonate; Carbonic acid, zinc salt. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100 begin\_of\_the\_skype\_highlighting 201-796-7100 end of the skype highlighting Emergency Number: 201-796-7100 begin of the skype highlighting 201-796-7100 end\_of\_the\_skype\_highlighting For CHEMTREC assistance, call: 800-424-9300 begin of the skype highlighting 800-424-9300 end\_of\_the\_skype\_highlighting For International CHEMTREC assistance, call: 703-527-3887 begin\_of\_the\_skype\_highlighting 703-527-3887 end\_of\_the\_skype\_highlighting Section 2 - Composition, Information on Ingredients CAS# Chemical Name Percent EINECS/ELINCS 3486-35-9 Zinc carbonate 90-100 222-477-6 Section 3 - Hazards Identification EMERGENCY OVERVIEW Appearance: white solid. Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated. Target Organs: None. Potential Health Effects Eye: May cause eye irritation. Skin: May cause skin irritation. Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Inhalation: May cause respiratory tract irritation. Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water. Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Notes to Physician: Treat symptomatically and supportively. Section 5 - Fire Fighting Measures General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire. Flash Point: Not applicable. Autoignition Temperature: Not applicable. Explosion Limits, Lower:Not available. Upper: Not available. NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0 Section 6 - Accidental Release Measures General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Section 7 - Handling and Storage Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Storage: Store in a cool, dry place. Keep containers tightly closed. Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Exposure Limits Chemical Name ACGIH NIOSH OSHA - Final PELs Zinc carbonate none listed none listed none listed OSHA Vacated PELs: Zinc carbonate: No OSHA Vacated PELs are listed for this chemical. Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Section 9 - Physical and Chemical Properties

Appearance: white Odor: odorless pH: Not applicable. Vapor Pressure: Not applicable. Vapor Density: Not applicable. Evaporation Rate:Not applicable. Viscosity: Not applicable. Boiling Point: Not applicable. Freezing/Melting Point:Decomposes. Decomposition Temperature:300 deg C Solubility: Insoluble in water. Specific Gravity/Density:4.398 Molecular Formula:ZnCO3 Molecular Weight:125.3782

Physical State: Solid

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Decomposed by acids with effervescence, evolution of carbon dioxide. Conditions to Avoid: Dust generation. Incompatibilities with Other Materials: Strong acids. Hazardous Decomposition Products: Carbon dioxide, zinc oxides. Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 3486-35-9: FG3375000 LD50/LC50: Not available. Carcinogenicity: CAS# 3486-35-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: Zinc carbonate has caused skin abnormalities when administered orally to lactating female mice 14 days post birth at a dose of 2800 mg/kg. Mutagenicity: No data available. Neurotoxicity: No data available. Other Studies: Section 12 - Ecological Information No information available. Section 13 - Disposal Considerations Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed. Section 14 - Transport Information US DOT Canada TDG Shipping Name: Not regulated as a hazardous material No information available. Hazard Class: UN Number: Packing Group: Section 15 - Regulatory Information **US FEDERAL** TSCA CAS# 3486-35-9 is listed on the TSCA inventory. Health & Safety Reporting List

Zinc Carbonate None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule. Section 12b None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs CAS# 3486-35-9: 1000 lb final RQ; 454 kg final RQ SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ. Section 313 This material contains Zinc carbonate (listed as Zinc compounds), 90-100%, (CAS# 3486-35-9) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. Clean Water Act: CAS# 3486-35-9 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 3486-35-9 is listed as a Toxic Pollutant under the Clean Water Act. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE CAS# 3486-35-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts. California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: Not available. Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 3486-35-9: 0 Canada - DSL/NDSL CAS# 3486-35-9 is listed on Canada's DSL List. Canada - WHMIS

This product has a WHMIS classification of D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 3486-35-9 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997 Revision #4 Date: 9/26/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

**SDS #:** 861.00 **Revision Date:** March 21, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Zinc Chloride

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

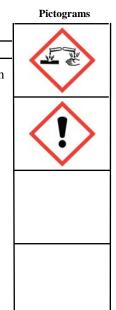
SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Signal Word

DANGER

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).



#### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Zinc chloride, anhydrous	7646-85-7	$ZnCl_2$	136.29	
Synonym: Zinc dichloride				

#### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

#### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes. **In case of fire:** Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

NFPA Code None established

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates. Deliquescent. Store in a cool, dry place within a Flinn Chem-Saf<sup>TM</sup> bag.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Exposure guidelines: (as fume) PEL/TLV 1 mg/m<sup>3</sup> (OSHA, ACGIH) STEL 2 mg/m<sup>3</sup> (ACGIH)

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals or powder. Odorless. Soluble: Water and alcohol

Boiling point: 732 °C Melting point: 290 °C Specific gravity: 2.91

#### SECTION 10 - STABILITY AND REACTIVITY

Avoid contact with strong oxidizers. Shelf life: Fair to poor, deliquescent. See Section 7 for further information.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, corrosive. Chronic effects: Possible mutagen. Target organs: N.A.

ORL-RAT LD<sub>50</sub>: 350 mg/kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Zinc chloride, anhydrous. Hazard class: 8, Corrosive. UN number: UN2331.

N/A = Not applicable

#### SECTION 15 - REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-592-0)

#### **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals. Revision Date: March 21, 2014

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SDS #: 862.00 Revision Date: March 21, 2014

Pictograms

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Zinc Nitrate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

**SECTION 2 — HAZARDS IDENTIFICATION** 

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Signal Word

DANGER

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

#### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Zinc nitrate hexahydrate	10196-18-6	$Zn(NO_3)_2 \cdot 6H_2O$	297.49	
Synonym: Zinc dinitrate				

#### SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If eve irritation persists: Get medical advice or attention (P337+P313).

If on skin: Rinse cautiously with water for several minutes (P351).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

Strong oxidizer. Fire and explosion risk when in contact with combustible materials. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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NFPA CODE None

established

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites and azides. Store in a cool, dry place. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221). Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, eye protection, and face protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Moist, white lumps or crystals. Odorless. Soluble: Water and alcohol

Melting point: 36.4 °C Specific gravity: 2.065

#### SECTION 10 - STABILITY AND REACTIVITY

Avoid contact with strong reducers, organic and combustible materials. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive. Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD<sub>50</sub>: 1190 mg/kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Zinc Nitrate. Hazard class: 5.1, Oxidizer. UN number: UN1514

#### N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (292-366-5), RCRA code D001.

#### **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals. Revision Date: March 21, 2014

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# LINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

# Material Safety Data Sheet (MSDS)

# Section 1 — Chemical Product and Company Identification

# Zinc Oxide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261 CHEMTREC Emergency Phone Number: (800) 424-9300

## Section 2 - Composition, Information on Ingredients

Zinc Oxide Synonym: zinc white CAS#: 1314-13-2

#### Section 3 — Hazards Identification

Pale-yellow granular powder. Odorless. Moderately toxic by ingestion and inhalation. Body tissue irritant. Avoid all body tissue contact.

#### Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately. Eye: Immediately flush with fresh water for 15 minutes. External: Wash continuously with fresh water for 15 minutes. Internal: Give large quantities of water. Call a physician or poison control at once.

#### Section 5 — Fire Fighting Measures

Non flammable solid.

#### Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

#### Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool, dry place. Use and dispense in a hood.

#### Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 5 mg/m3, STEL 10 mg/m3 (OSHA, ACGIH)

#### PAGE 1 OF 2

**MSDS #:** 864.00 Revision Date: May 22, 2001

# FLINN AT-A-GLANCE

Flammability-0 Reactivity-1 Exposure-1 Storage-0

0 is low hazard, 3 is high hazard

NFPA CODE None established

Health-2

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

# Material Safety Data Sheet (MSDS)

Zinc Oxide

MSDS #: 864.00 Revision Date: May 22, 2001

## Section 9 — Physical and Chemical Properties

Pale-yellow granular powder. Odorless. Solubility: Acids and alkali. Formula: ZnO Formula Weight: 81.38 Specific Gravity: 5.47 Melting Point: 1975 C

#### Section 10 — Stability and Reactivity

Zinc oxide, powder reacts violently with chlorinated rubber. Avoid heating. Shelf Life: Indefinite.

#### Section 11 — Toxicological Information

Acute effects: Harmful dust Chronic effects: N.A. Target organs: N.A. ORL-RAT LD50: 630 mg/kg IHL-MUS LC50: 2500 mg/m3 SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### Section 12 — Ecological Information

Data not yet available.

#### Section 13 — Disposal Considerations

Please consult with state and local regulations. Flinn Suggested Disposal Method #26a is one option.

#### Section 14 — Transport Information

Shipping Name: Not regulated Hazard Class: N/A UN Number: N/A

N/A = Not applicable

#### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-222-5).

#### Section 16 — Other Information

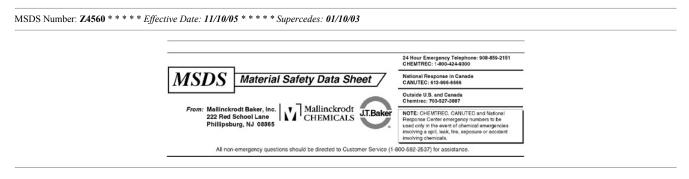
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# Zinc Sulfate, 7-Hydrate

#### 1. Product Identification

Synonyms: Sulfuric acid, zinc salt (1:1) heptahydrate; Zinc vitriol, heptahydrate; Zinc sulfate, heptahydrate CAS No.: 7733-02-0 (Anhydrous) 7446-20-0 (heptahydrate) Molecular Weight: 287.56 Chemical Formula: ZnSO4.7H2O Product Codes: J.T. Baker: 4382, 4383, 4384 Mallinckrodt: 7805, 8872, 8880

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Zinc Sulfate	7733-02-0	100%	Yes

#### 3. Hazards Identification

#### **Emergency Overview**

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life) Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 3 - Severe Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES Storage Color Code: Green (General Storage)

#### Potential Health Effects

-----

#### Inhalation:

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

#### Ingestion:

As with other soluble zinc salts, zinc sulfate may hydrolyze into acid if swallowed. Severe irritation and burns of the mouth, throat and digestive system may occur. Symptoms may include vomiting, stomach pain, increased pulse rate without blood pressure decrease, blood pressure decrease, acute pulmonay edema (fluid in the lungs), diarrhea, kidney damage, other gastrointestinal disturbances and hemorrhagic pancreatitis. A fatality following ingestion of 10 grams has been reported. Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain.

Eve Contact:

Irritant, can cause pain and redness, possible mechanical harm. May cause severe irritation.

Chronic Exposure:

Chronic exposure may cause fatigue, slow tendon reflexes, intestinal inflammation (with bleeding), diarrhea, blood effects, central nervous system depression, tremors and paralysis of the extremities. Repeated skin or eye contact can cause skin and eye effects.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

#### 4. First Aid Measures

Inhalation: Remove to : Ingestion:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

If swallowed, give several glasses of water to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** 

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion: Sealed containers may rupture when heated.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Use water carefully as material will react with water to form acidic solution. Water spray may be used to keep fire exposed containers cool.

**Special Information:** 

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Zinc sulfate can decompose at high temperatures to form toxic oxides, sulfur and zinc oxide as well as water vapor. Sealed containers of this material may rupture at moderate temperatures (release of water vapor). Forms acidic solutions in water.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Material dissolves in water to form an acidic solution. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

#### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Material dissolves in water to form an acidic solution. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

#### Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

Appearance: Colorless crystals or granules. Odor: Odorless. Solubility: Soluble in water. Specific Gravity: 1.97 pH: ca. 4.5 Aqueous solution % Volatiles by volume @ 21C (70F):

#### 10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Oxides of sulfur and oxides of zinc. Reacts with water to form sulfuric acid.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Lead, calcium, strontium salts, borax, alkali carbonates and hydroxides, silver protein and tannins.
Conditions to Avoid:
Heat, moisture, incompatibles.

#### **11. Toxicological Information**

Hydrate: Oral rat LD50: 2150 mg/kg. Investigated as a mutagen.

For anhydrous zinc sulfate: oral rat LD50: 1710 mg/kg; Irritation, rabbit eye, standard Draize: 420 ug, moderate. Investigated as a tumorigen, mutagen, reproductive effector.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Zinc Sulfate (7733-02-0)	No	No	None

#### **12. Ecological Information**

Environmental Fate: No information found. Environmental Toxicity: The LC50/96-hour values for fish are between 1 and 10 mg/l. This material is expected to be toxic to aquatic life.

#### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### **14. Transport Information**

Not regulated.

#### **15. Regulatory Information**

\Chemical Inventory Status - Part 1\ Ingredient	TSCA	EC	Japan	Australia
Zinc Sulfate (7733-02-0)				Yes
		C	anada	
Ingredient	Korea			Phil.
Zinc Sulfate (7733-02-0)	Yes	Yes	No	Yes
\Federal, State & International Regulat:				A 313
Ingredient RQ	TPQ	Li	st Che	mical Catg.
				c compoun
\Federal, State & International Regulat:	ions -		2\ T	

Ingredient	CERCLA	261.33	8(d)
Zinc Sulfate (7733-02-0)	1000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated. Poison Schedule: S6 WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### **16. Other Information**

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0 Label Hazard Warning: WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. Label Precautions: Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Label First Aid: If swallowed, give several glasses of water to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention. **Product Use:** Laboratory Reagent. **Revision Information:** No Changes. **Disclaimer:** Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

**SDS #:** 866.00 **Revision Date:** March 21, 2014

DANGER

Signal Word

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Zinc Sulfate

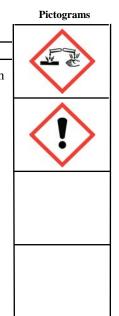
Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

#### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).



#### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Zinc sulfate heptahydrate	7446-20-0	$ZnSO_4 \cdot 7H_2O$	287.56	
Synonym: White vitriol				

#### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

#### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes. **In case of fire:** Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

NFPA Code None established

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates. Efflorescent. Store in a Flinn Chem-Saf<sup>TM</sup> bag. Store in a cool, dry place.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless crystals, small needles or granular powder. Odorless. Soluble: Water. Insoluble in alcohol. Melting point: 100 °C Specific gravity: 1.957

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, moist air. Shelf life: Fair to poor, efflorescent. See Section 7 for further information.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: 1260 mg/kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

#### N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-793-3).

#### SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 21, 2014

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#### **SDS #:** 859.00

Revision Date: December 18, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDEN	TIFICATION	
Zinc		
Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1	261	
CHEMTREC Emergency Phone Number: (800) 424-9300	Signal Word N/A	Pictograms
SECTION 2 — HAZARDS IDENTIFICATION		
This chemical is considered nonhazardous according to GHS classific Standard. Treat all laboratory chemicals with caution.	cations for the Hazard Communication	n
As shipped, no adverse effects or dangers are associated with zinc in Combustible hazards are associated with the dust or powdered forms.		ular.

#### SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Zinc	7440-66-6	Zn	65.37	

#### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If on skin: Brush off loose particles from skin (P335). Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### SECTION 5 — FIRE FIGHTING MEASURES

#### Nonflammable solid.

Finely divided zinc dust is a severe fire hazard. Zinc dust in contact with acids, water or damp air evolves hydrogen gas. The heat produced may ignite the hydrogen gas. Minimize contact with moisture. **In case of fire:** Use a tri-class dry class fire extinguisher (P370+P378). If there is contact with water use class D fire extinguisher according to NFPA book.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

NFPA Code None

established

Zinc

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Shiny white metal with bluish-gray luster. Forms: granular, mossy dust, metal pieces, foil, sheets, shot, strips. Odorless. Soluble: Acids and alkalies. Insoluble in water.

Boiling point: 908 °C Melting point: 419 °C Specific gravity: 7.14

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid strong acids, strong bases, cadmium, sulfur chlorinated solvents, amines, and carbon disulfide. Avoid any source of flame for zinc dust only! Zinc dust can spontaneously combust when in contact with moisture. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Dust may cause lung irritations. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: N.A. IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

#### N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-175-3).

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data shall information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Filin Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSIVE DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSA

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** December 18, 2014

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# Safety Data Sheet

# \* Trusted Quality Since 1921 \*

www.rustoleum.com

1. Identification			
Product Name:	BEYE QT 6 PK 1-2-3	Revision Date:	5/14/2015
Product Identifier:	2004	Supercedes Date:	5/6/2015
Product Use/Class:	Topcoat/ Waterbased		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		
Emergency Telephone:	24 Hour Hotline: 847-367-7700		

# 2. Hazard Identification

**EMERGENCY OVERVIEW:** Use ventilation necessary to keep exposures below recommended exposure limits, if any. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Causes eye irritation.

#### Classification

Symbol(s) of Product



Signal Word Warning

#### GHS HAZARD STATEMENTS

GHS HAZARD STATEMENTS			
Acute Toxicity, Dermal, category 5	H313	May be harmful in contact with skin.	
Skin Irritation, category 2	H315	Causes skin irritation.	
Aspiration Hazard, category 2	H305	May be harmful if swallowed and enters airways	
Skin Irritation, category 3	H316	Causes mild skin irritation	
Eye Irritation, category 2B	H320	Causes eye irritation	
GHS LABEL PRECAUTIONARY STAT	EMENTS		
P102	Keep out of	reach of children.	
P103	Read label	before use.	
P202	Do not handle until all safety precautions have been read and understood.		
P234	Keep only i	n original container.	
P260	Do not brea	the dust/fume/gas/mist/vapours/spray.	
P262	Do not get i	n eyes, on skin, or on clothing.	
P264	Wash thoroughly after handling.		
P271	Use only outdoors or in a well-ventilated area.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P281	Use personal protective equipment as required.		
P285	In case of ir	nadequate ventilation wear respiratory protection.	

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P335	Brush off loose particles from skin.
P350	Gently wash with plenty of soap and water.
P351	Rinse cautiously with water for several minutes.
P374	Fight fire with normal precautions from a reasonable distance.
P402	Store in a dry place.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362	Take off contaminated clothing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P332+P313	If skin irritation occurs: Get medical advice/attention.

# 3. Composition/Information On Ingredients

#### HAZARDOUS SUBSTANCES

Chemical Name	<u>CAS-No.</u>	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Limestone	1317-65-3	10-25		
Titanium Dioxide	13463-67-7	2.5-10		
Hydrous Magnesium Silicate	14807-96-6	1.0-2.5		
Ethylene Glycol	107-21-1	1.0-2.5		
Zinc Oxide	1314-13-2	1.0-2.5		
Blend of Nonionic Surfactants	PROPRIET ARY	0.1-1.0		

The text for GHS Hazard Statements shown above (if any) is given in the "16. Other Information" section.

# 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. If swallowed, rinse mouth with water. If feeling unwell, get medical attention.

# 5. Fire-fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F. No unusual fire or explosion hazards noted. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred.

#### 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers

# 7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing. **STORAGE:** Keep from freezing. Keep container closed when not in use. Store in a dry, well ventilated place. Keep container tightly closed when not in use.

#### 8. Exposure Controls/Personal Protection Weight % ACGIH TLV-ACGIH TLV-OSHA PEL-**Chemical Name** CAS-No. **OSHA PEL-TWA** Less Than TWA CEILING STEL 15 mg/m3 (Total 5 mg/m3 Limestone 1317-65-3 15.0 N.E. N.E. Dust, OSHA) (Respirable Dust) 10 mg/m3 (Total 15 mg/m3 [Total **Titanium Dioxide** 13463-67-7 10.0 N.E. N.F. Dust] Dust) 2 mg/m3 20 mppcf Hydrous Magnesium Silicate 14807-96-6 5.0 (Respirable N.E. (Mineral Dust N.E. Dust) <1% Quartz) Ethylene Glycol 107-21-1 5.0 N.E. 39 ppm N.E. N.E. 5 mg/m3 2 mg/m3 10 mg/m3 Zinc Oxide 1314-13-2 5.0 (respirable dust N.E. (respirable dust) (respirable dust) or fume) PROPRIETARY Blend of Nonionic Surfactants 1.0 N.E N.E. N.E. N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

# 9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Mild	Odor Threshold:	N.E.
Relative Density:	1.292	pH:	N.D.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Miscible	Partition Coefficient, n-octanol/	
Decompostion Temp., °C:	No Information	water:	No Information
Boiling Range, °C:	0 - 450	Explosive Limits, vol%:	0.9 - 17.7
Flammability:	Does not Support Combustion	Flash Point, °C:	>93
Evaporation Rate:	Slower than Ether	Auto-ignition Temp., °C:	No Information
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

#### 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

#### 11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation. Irritating, and may injure eye tissue if not removed promptly.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. Low hazard for usual industrial handling or commercial handling by trained personnel.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Low hazard for usual industrial handling or commercial handling by trained personnel. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist.

EFFECTS OF OVEREXPOSURE - INGESTION: Substance may be harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	<u>Chemical Name</u>	Oral LD50	Dermal LD50	Vapor LC50
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	N.I.	N.I.
107-21-1	Ethylene Glycol	4000 mg/kg Rat	N.I.	N.I.
1314-13-2	Zinc Oxide	>5000 mg/kg Rat	N.I.	N.I.

N.I. - No Information

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

#### 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	N.A.	N.A.	N.A.
Proper Shipping Name:	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Hazard Class:	N.A.	N.A.	N.A.	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	No	No	No	No

15. Regulatory Information
----------------------------

#### **U.S. Federal Regulations:**

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	<u>CAS-No.</u>
Ethylene Glycol	107-21-1
Zinc Oxide	1314-13-2

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>Chemical Name</u>	CAS-No.
Sodium Nitrite	7632-00-0
5-Chloro-2-Methyl-4-Isothiazolin-3-one	26172-55-4
Methyl-4-Isothiazolin-3-one	2682-20-4

#### **CALIFORNIA PROPOSITION 65:**

WARNING: This product contains a substance known to the State of California to cause cancer.

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7
Blend of Nonionic Surfactants	PROPRIETARY
Crystalline Silica / Quartz	14808-60-7
Diethanolamine	111-42-2
Lead Compounds	7439-92-1
Arsenic Compounds	7440-38-2
Nickel Compounds	7440-02-0
Cadmium Compounds	7440-43-9

#### **CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

WARNING: This product contains a substance known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	CAS-No.
Blend of Nonionic Surfactants	PROPRIETARY
Lead Compounds	7439-92-1
Cadmium Compounds	7440-43-9
Mercury Compounds (Inorganic)	7439-97-6

#### International Regulations:

#### **CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

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# 16. Other Information

HMIS RATINGS Health: 2*	Flammability:	1	Physical Hazard:	0	Personal Protection:	х
CANADIAN WHM	IIS CLASS:	D2A				
NFPA RATINGS Health: 2	Flammability:	1	Instability	0		
VOLATILE ORGAN		9S, g/L:	84			
MSDS REVISION	DATE:	5/14/2015				
REASON FOR RE	VISION:	No Information				

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

## Icons for GHS Pictograms shown in Section 3 describing each ingredient:

No GHS Pictograms exist for Section 3

No Information

# Material Safety Data Sheet

24 Hour Assistance:

1-847-367-7700 Rust-Oleum Corp.



www.rustoleum.com

Product Name:	BEYE QT 6 PK SEALCOAT UNIV SANDING	Revision Date:	10/30/2013
Product Number:	854		
Product Use/Class:	Wood Sealer/Shellac		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Prepared by:	Regulatory Department		

# 2. Hazard Identification

EMERGENCY OVERVIEW: Harmful if swallowed. Causes eye irritation. Flammable liquid and vapor. Causes nose and throat irritation. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Use ventilation necessary to keep exposures below recommended exposure limits, if any.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. May cause headaches and dizziness. High vapor concentrations are irritating to the eyes, nose, throat and lungs. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

# Composition/Information On Ingredients

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Ethanol	64-17-5	70.0	1000 ppm	N.E.	1000 ppm	N.E.
Isopropyl Alcohol	67-63-0	5.0	200 ppm	400 ppm	400 ppm	N.E.
	•		•		•	•

# 4. First-aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

#### 5. Fire-fighting Measures

Flash Point, °F 55 (Setaflash)

Extinguishing Media: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Isolate from heat, electrical equipment, sparks and open flame. Vapors can travel to a source of ignition and flash back. Vapors may form explosive mixtures with air. No unusual fire or explosion hazards noted. Closed containers may explode when exposed to extreme heat due to buildup of steam. Keep containers tightly closed.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

## 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Remove contaminated clothing and launder before reuse. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Avoid excess heat.

#### 8. Exposure Controls/Personal Protection

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

# 9. Physical and Chemical Properties

Vapor Density	Heavier than Air	Odor:	Alcohol Like
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in Water:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.866	pH:	5.0-6.5
Physical State:	Liquid		

(See section 16 for abbreviation legend)

# 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid all possible sources of ignition. Avoid temperatures above 120 ° F. Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

# 11. Toxicological Information

Chemical Name	<u>LD50</u>	<u>LC50</u>
Ethanol	90 mL/kg (Rat, Oral)	N.E.
Isopropyl Alcohol	5800 mg/kg (Rat)	12000 ppm (Rat, 8Hr)

# 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

#### 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter waterways, wastewater. soil, storm drains or sewer systems.

# 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1263	1263	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Paint	Paint	Paint Products in Limited Quantities
Hazard Class:	N.A.	3	3	N.A.
Packing Group:	N.A.	II	П	N.A.
Limited Quantity:	Yes	Yes	No	Yes

#### **U.S. Federal Regulations:**

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Isopropyl Alcohol	67-63-0

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

#### International Regulations:

#### CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: B2 D2A

16. Other Information								
HMIS Rat	tings:							
Health:	2	Flammability:	3	Physical Hazard:	0	Personal Protection:	Х	
NFPA Ra	tings:							
Health:	2	Flammability:	3	Instability	0			
VOLATILI	E ORG		JNDS, g/L:	653				
REASON	FOR I	REVISION:	Regulatory L	Ipdate				

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

# Section 1 General Information

#### Manufacturer:

Zinsser Company, Inc. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

<b>Emergency Telephone:</b>	Chemtrec (800) 424-9300	Date: April 15, 2005

Product Name: Bulls Eye 3 Lb. Clear Shellac

Product Codes: 300, 301, 304, 308, 316

# Section 2 Hazardous Ingredients

<u>Hazardous Component</u>	CAS#	OSHA <u>PEL</u>	ACGIH <u>TLV</u>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm
Isopropyl Alcohol	67-63-0	400 ppm	200 ppm
Methyl Isobutyl Ketone	108-10-1	100 ppm	50 ppm

# Section 3 Hazard Identification

**Emergency Overview**: This material is cloudy beige colored liquid coating used to finish wood and other surfaces. It has an alcohol type odor and a flashpoint of 60° F.

#### **Primary Routes of Exposure:**

Inhalation

# **Potential Acute Health Effects:**

**Eye**: May cause eye irritation.

Skin: May cause skin irritation.

**Ingestion**: May be harmful if swallowed.

**Inhalation**: Vapors may be irritating to eyes and respiratory tract. May cause CNS depression.

Potential Chronic Health Effects:

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

**Signs and Symptoms**: Chronic exposures may result in irritation to mucous membranes, headache, drowsiness, CNS depression, and/or liver damage.

(See also Sections 4, 8, and 11 for related information)

# Section 4 First Aid Measures

**Eye contact**: Flush eyes with water for at least 15 minutes.

Skin contact: Wash with soap and water.

**Ingestion**: If the person is conscious and able to swallow have them drink water to dilute. Call a poison control center, physician, or emergency room.

**Inhalation**: If exposed to excessive levels of vapor or mist, remove to fresh air. Seek medical attention if cough or other symptoms develop.

# Section 5 Fire Fighting Measures

**Flash Point** (method): 60° F

**Extinguishing Media**: Use dry chemical, "alcohol resistant" foam, or carbon dioxide. Water may be ineffective but water applied as a spray can absorb some of the fire's heat and should be used to keep fire-exposed containers cool.

**Protection of Firefighters**: As in any fire, wear self-contained breathing apparatus pressuredemand, NIOSH and full protective gear. Evacuate area and fight fire from safe distance.

Fire and Explosion Hazards: Vapors may form explosive mixture with air.

# Section 6 Accidental Release Measures

**Personal Precautions**: Avoid skin contact. Avoid breathing vapors. Wash hands before eating.

**Clean Up Methods**: Keep unnecessary people away. Remove all sources of ignition. Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid to containers for recovery or disposal. Keep spill out of sewer and open bodies of water. Floors may be slippery; care should be exercised to avoid falls. Avoid runoff into storm sewers and ditches that lead to waterways.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

# Section 7 Handling and Storage

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

**Handling**: Keep away from heat, spark, and flame. Keep operating temperatures below ignition temperatures at all times. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

**Storage**: Store way from heat. Keep away from heat, sparks and flame. Keep containers tightly closed and upright when not in use. Protect against physical damage.

# Section 8 Exposure Controls / Personal Protection

**Engineering Controls**: Use general room dilution ventilation, process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

# Personal Protective Equipment (PPE):

**Eye Protection**: Where contact is likely, wear chemical splash goggles and/or full-face shield.

**Skin Protection**: Where contact is likely, wear chemical resistant gloves and other protective clothing to prevent skin contact.

**Respiratory Protection**: Wear vapor levels exceed allowable exposure limits, wear a NIOSH approved air purifying respirator with an organic vapor cartridge.

**General Hygiene Practices**: Avoid eye and skin contact. Avoid breathing vapors. Wash hands before eating and drinking. Do not smoke while using this material.

Section 9	Physical Data		
Appearance:	Cloudy beige liquid	Odor:	Alcohol type odor
Physical State:	Liquid	pH:	4.5 - 5.5
Boiling Point:	173° F*	Melting/F	reezing Point: N/A
Vapor Pressure:	40 mm/Hg*	Vapor De	<b>nsity</b> : 1.59
Odor Threshold:	N/D	Viscosity:	25 – 300 cps
Specific Gravity (wa	ater = 1): $0.89$	Autoignit	ion Temp: 685° F*

**Water Solubility**: The alcohol portion is soluble in water, the shellac portion is not soluble and will from a gelatinous layer on top of water.

\* based on pure ethyl alcohol.

# Section 10 Stability and Reactivity

Stability: Stable, non-reactive.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon monoxide during incomplete combustion.

Conditions to Avoid: Heat, sparks, flames.

Incompatibility: Oxidizing agents

# Section 11 Toxicological Information

**Carcinocenicity**: This material is not considered a carcinogen by IARC or NTP and is not regulated as a carcinogen by OSHA.

(See also Section 15 for related information)

# Section 12 Ecological Information

Chemical Fate and Effects: No data available.

# Section 13 Disposal Considerations

**RCRA Hazardous Waste**: This material, when discarded or disposed of, could be a hazardous waste according to federal regulations (40 CFR 261) due to the characteristic of ignitability (D001). The transportation, storage, treatment, and disposal of this waste must be conducted in compliance with 40 CFR 262, 263, 264, 268, and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

Section 14 Transportation Information				
es				
int				
N 1263				
Flammable Liquid				

# Section 15 Regulatory Information

## CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

# SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
Methyl Isobutyl Ketone	108-10-1	1%

## TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product contains the following chemicals which require export notification under section 12(b) of the TSCA regulation:

Chemical Name	CAS#	TSCA Section
None		

# Section 16 Other Information

Legend: N/A: Not Applicable N/E: Not Established

N/D: Not Determined N/R: Not Required

C: OSHA Ceiling Value **STEL**: Short Term Exposure Limit  $mg/m^3$ : milligrams per cubic meter cps: Centipoise **mppcf**: million particles per cubic foot of air. **PPM**: Parts Per Million **PPB**: Parts Per Billion **PEL**: Permissible Exposure Limit **TLV**: Threshold Limit Value **TWA**: Time Weighted Average ACGIH: American Conference of Governmental Industrial Hygienists **CPSC:** Consumer Product Safety Commission **DOT**: US Dept. of Transportation FHSA: Federal Hazardous Substance Act **OSHA**: Occupational Safety and Health Administration (US Dept. of Labor) **RCRA**: Resource Conservation and Recovery Act SARA: Superfund Amendment and Reauthorization Act Skin: This substance has the potential to be absorbed systemically through the skin. **TSCA**: Toxic Substance Control Act

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

**Disclaimer:** Zinsser Company, Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

# Safety Data Sheet

\* Trusted Quality Since 1921 \*

www.rustoleum.com

1. Identification			
Product Name:	BEYE 12-OZ 6 PK SPRAY SHELLAC	Revision Date:	5/18/2015
Product Identifier:	408	Supercedes Date:	New SDS
Product Use/Class:	Topcoat/Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		
Emergency Telephone:	24 Hour Hotline: 847-367-7700		

## 2. Hazard Identification

**EMERGENCY OVERVIEW:** Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Contents Under Pressure. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Harmful if swallowed. Causes eye irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation.

### Classification

Symbol(s) of Product



Signal Word Danger

### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Acute Toxicity, Oral, category 5	H303	May be harmful if swallowed.
Acute Toxicity, Dermal, category 5	H313	May be harmful in contact with skin.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Aspiration Hazard, category 2	H305	May be harmful if swallowed and enters airways
Eye Irritation, category 2B	H320	Causes eye irritation
Flammable Aerosol, category 1	H280	Contains gas under pressure; may explode if heated.

Date Printed:	5/18/2015
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		1 dg0 2 7 7
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects . Classified as mutagenic Category 1 if one ingredient is present at or above 0.1% Applies to liquids, Solids (w/w units) and gases (v/v). The substance may also have its own exposure limit. Routes of exposure are dependent on ingredient form.
Carcinogenicity, category 1A	H350	May cause cancer. Classified as carcinogenic Category 1 on the basis of epidemiological and/or animal data. Mixtures are classified as carcinogenic when at least 1 ingredient has been classified as carcinogenic and is present at 0.1% or above Routes of exposure are dependent on ingredient form.May cause cancer <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>
GHS LABEL PRECAUTIONARY STATEMENTS		
P211	Do not spra	y on an open flame or other ignition source.
P251		ce or burn, even after use.
P375	-	motely due to the risk of explosion.
P102	•	Freach of children.
P103	Read label	
P234		n original container.
P260		athe dust/fume/gas/mist/vapours/spray.
P262		in eyes, on skin, or on clothing.
P264	-	roughly after handling.
P271		utdoors or in a well-ventilated area.
P273	•	se to the environment.
P280	Wear prote	ctive gloves/protective clothing/eye protection/face protection.
P281	-	al protective equipment as required.
P285		nadequate ventilation wear respiratory protection.
P312	Call a POIS	ON CENTER or doctor/physician if you feel unwell.
P350		h with plenty of soap and water.
P374	Fight fire w	th normal precautions from a reasonable distance.
P402	Store in a d	lry place.
P410+P412	Protect fror	n sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.
P210	Keep away smoking.	from heat, hot surfaces, sparks, open flames and other ignition sources. No
P403+P235	Store in a w	vell-ventilated place. Keep cool.
P302+P352	IF ON SKIN	I: Wash with plenty of soap and water.
P362	Take off co	ntaminated clothing.
P305+P351+P338		: Rinse cautiously with water for several minutes. Remove contact lenses, if I easy to do. Continue rinsing.
P337+P313	lf eye irritat	ion persists: Get medical advice/attention.
P403+P233	Store in a w	vell-ventilated place. Keep container tightly closed.
P201	Obtain spe	cial instructions before use.
P308+P313	IF exposed	or concerned: Get medical advice/attention.

# 3. Composition/Information On Ingredients

### HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Ethanol	64-17-5	25-50	GHS02	H225
Acetone	67-64-1	25-50	GHS02-GHS07	H225-336-319
Liquefied Petroleum Gas	68476-86-8	10-25	GHS08	H340-350
n-Butanol	71-36-3	2.5-10	GHS02-GHS05- GHS07	H226-302-335-336-315-318
2-Propanol	67-63-0	1.0-2.5	GHS02-GHS07	H225-336-319

The text for GHS Hazard Statements shown above (if any) is given in the "16. Other Information" section.

## 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

**SPECIAL FIREFIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

## 8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Ethanol	64-17-5	35.0	N.E.	1000 ppm	1000 ppm	N.E.
Acetone	67-64-1	30.0	500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	25.0	N.E.	N.E.	N.E.	N.E.
n-Butanol	71-36-3	5.0	N.E.	20 ppm	100 ppm	N.E.
2-Propanol	67-63-0	5.0	200 ppm	400 ppm	400 ppm	N.E.

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

## 9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	0.745	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Miscible	Partition Coefficient, n-	
Decompostion Temp., °C:	No Information	octanol/water:	No Information
Boiling Range, °C:	0 - 244	Explosive Limits, vol%:	1.4 - 20.0
Flammability:	Does not Support Combustion	Flash Point, °C:	-105
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	No Information
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120 ° F. Avoid contact with strong acid and strong bases. Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

### 11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64-17-5	Ethanol	N.I.	N.I.	124.7 mg/L Rat
71-36-3	n-Butanol	790 mg/kg Rat	3400 mg/kg Rabbit	N.I.
67-63-0	2-Propanol	4396 mg/kg Rat	12800 mg/kg Rabbit	N.I.

### N.I. - No Information

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

## 13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

### U.S. Federal Regulations:

### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
n-Butanol	71-36-3

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

### **CALIFORNIA PROPOSITION 65:**

WARNING: This product contains a substance known to the State of California to cause cancer.

Chemical Name	<u>CAS-No.</u>
Ethanol	64-17-5
Benzene	71-43-2

### **CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

WARNING: This product contains a substance known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	CAS-No.
Ethanol	64-17-5
Benzene	71-43-2

## **International Regulations:**

### **CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

16. Other Information					
HMIS RATINGS	A	Dhusiaal Hanandi	0	Dava and Drate ations	v
Health: 2 Flammability:	4	Physical Hazard:	0	Personal Protection:	Х
CANADIAN WHMIS CLASS:	AB5 D2A				
Health: 2 Flammability:	4	Instability	0		
OLATILE ORGANIC COMPOUN	IDS, g/L:	604			
MSDS REVISION DATE:	5/18/2015				
REASON FOR REVISION:	No Information				

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>
H350	May cause cancer <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>

#### Icons for GHS Pictograms shown in Section 3 describing each ingredient:





Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

# Section 1 General Information

Manufacturer: Zinsser Company, Ind 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100	2.	<b>HMIS Rating</b> HEALTH:1FLAMMABILITY:3REACTIVITY:0
Emergency Telephon	e: Chemtrec (800) 424-9300	Date: July 22, 2003
Product Name:	Covers Up	
Product Codes:	03688	

## Section 2 Hazardous Ingredients

Hazardous Component	<u>CAS#</u>	OSHA <u>PEL</u>	ACGIH <u>TLV</u>
Acetone Limestone Propane Titanium dioxide n-Butane	67-64-1 1317-65-3 74-98-6 13463-67-7 106-97-8	1000 ppm 15 mg/m <sup>3</sup> * (5 mg/m <sup>3</sup> **) 1000 ppm 15 Mg/m <sup>3</sup> * N/E	500 ppm 10 mg/m <sup>3+</sup> (3 mg/m <sup>3+*</sup> ) 2500 ppm 10 Mg/m <sup>3</sup> 1000 ppm
* Total Dust ** Respirable Dust Fraction	† Inhal	able fraction	

# Section 3 Hazard Identification

**Emergency Overview:** This material is an aerosol spray coating. The container is pressurized and extremely flammable. As packaged, this material has a flashpoint of less than 32° F.

## Primary Routes of Exposure:

Inhalation Skin Contact Eye Contact

## Potential Acute Health Effects:

Eye: May cause eye irritation.

Skin: Prolonged contact may cause skin irritation.

**Ingestion:** Although ingestion is not anticipated route of exposure, this material can be harmful if swallowed. It may cause depression of the central nervous system, nausea, and vomiting.

**Inhalation:** May cause headache, drowsiness, dizziness, nausea, and respiratory tract irritation.

Potential Chronic Health Effects: None known.

(See also Sections 4, 8, and 11 for related information)

## Section 4 First Aid Measures

Eye contact: Flush eyes with water for 15 minutes.

Skin contact: Wash affected area thoroughly with soap and water.

**Ingestion:** Call a physician or poison control center.

**Inhalation:** Remove person to fresh air. Contact physician or poison control center if symptoms persist.

# Section 5 Fire Fighting Measures

Flash Point (method):  $< 32^{\circ}$  F (< 0° C)

Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical, water fog.

**Protection of Firefighters:** As in any fire, wear NIOSH approved self-contained breathing apparatus in pressure-demand mode and full protective gear.

**Fire and Explosion Hazards:** Contents under pressure. Containers can build up pressure if exposed to heat (fire).

## Section 6 Accidental Release Measures

**Personal Precautions:** Use with adequate ventilation. Avoid breathing vapors. Avoid contact with eyes and skin. Do not cat, drink or smoke in areas of use or storage.

Clean Up Methods: Dispose of in accordance with federal, state, local, regulations.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

# Section 7 Handling and Storage

**Handling**: Do not use near heat, sparks, or open flame. Keep operating temperatures below ignition temperatures at all times. Use only in a well-ventilated area.

**Storage:** Store at room temperature. Protect against physical damage. Contents under pressure. Do not expose to heat. Keep away from heat, spark, and flame. Do not puncture, incinerate, or store above 120° F. Do not discard empty container in garbage compactor. Exposure to heat or prolonged exposure to sunlight may cause bursting.

# Section 8 Exposure Controls / Personal Protection

**Engineering Controls:** General dilution ventilation or local exhaust ventilation may be necessary to control vapors below applicable exposure limits.

## Personal Protective Equipment (PPE):

**Eye Protection:** Wear safety glasses, splash goggles, or full face shield to prevent eye contact.

Skin Protection: Wear rubber gloves to prevent skin contact.

**Respiratory Protection:** Use NIOSH approved respirator with organic vapor cartridges if vapor levels exceed applicable workplace exposure limits.

General Hygiene Practices: Wash thoroughly after handling. Prevent Eye contact. Avoid prolonged skin or inhalation contact.

Section 9	Physical Data		·····
Appearance: Off	-white colored aerosol	Odor: Mild	odor.
Physical State:	Spray mist	pH: N/A	
<b>Boiling Point:</b>	N/D	Melting Point:	N/D
Vapor Pressure:	N/D	Vapor Density:	Greater than air
Odor Threshold:	N/D	Viscosity: N/D	
Solubility in Water:	N/D	<b>Specific Gravity</b> (v	vater = 1):0.9

# Section 10 Stability and Reactivity

Stability: Stable, non-reactive.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None known.

**Conditions to Avoid:** Heat, sparks, and open flames.

Incompatibilities: Strong oxidizing agents.

## Section 11 Toxicological Information

**Carcinocenicity:** This material is not considered a carcinogen by IARC or NTP and is not regulated as a carcinogen by OSHA.

(See also Section 15 for related information)

# Section 12 Ecological Information

Chemical Fate and Effects: No data available.

# Section 13 Disposal Considerations

**RCRA Hazardous Waste**: This material, when discarded or disposed of, could be a hazardous waste according to federal regulations (40 CFR 261) due to the characteristic of ignitability (D001). The transportation, storage, treatment, and disposal of this waste must be conducted in compliance with 40 CFR 262, 263, 264, 268, and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

## Section 14 Transportation Information

Regulated by the DOT: Yes

DOT Proper Shipping Name: Paint

UN / NA Number: UN 1950, Aerosols, Class 2

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

MSDS Code: Covers Up Spray MSDS (7-22-03)

# Section 15 Regulatory Information

## CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

### SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313),

Components present in this product at a level which could require reporting under the statute are:

<u>Chemical Name</u>	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product contains the following chemicals which require export notification under section 12(b) of the TSCA regulation:

Chemical Name	CAS#	TSCA Section
None	N/A	N/A

# Section 16 Other Information

Legend: N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required STEL: Short Term Exposure Limit C: OSHA Ceiling Value  $mg/m^3$ : milligrams per cubic meter cps: Centipoise mppcf: million particles per cubic foot of air. PPM: Parts Per Million **PPB**: Parts Per Billion **PEL:** Permissible Exposure Limit TLV: Threshold Limit Value TWA: Time Weighted Average ACGIH: American Conference of Governmental Industrial Hygienists **CPSC:** Consumer Product Safety Commission DOT: US Department of Transportation FHSA: Federal Hazardous Substance Act OSHA: Occupational Safety and Health Administration (US Dept. of Labor) RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendment and Reauthorization Act Skin: This substance has the potential to be absorbed systemically through the skin, TSCA: Toxic Substance Control Act

## HMIS Key

- 4 = Severe Hazard
- 3 = Serious Hazard
- 2 = Moderate Hazard
- 1 = Slight Hazard
- 0 = Minimal Hazard

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

**Disclaimer:** Zinsser Company, Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

24 Hour Assistance: 1-847-367-7700

Rust-Oleum Corp. www.rustoleum.com

1. Identification			
Product Name:	GARDZ QT 6PK	Revision Date:	2/28/2013
Identification Number:	2304		
Product Use/Class:	Topcoat/ Waterbased		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

## 2. Hazard Identification

**EMERGENCY OVERVIEW:** Use ventilation necessary to keep exposures below recommended exposure limits, if any.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Low hazard for usual industrial handling or commercial handling by trained personnel.

EFFECTS OF OVEREXPOSURE - INGESTION: Substance may be harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

## 3. Composition/Information On Ingredients

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propylene Glycol Monobutyl Ether	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.

## 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

**FIRST AID - INGESTION:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

## 5. Fire-fighting Measures

Flash Point, °F >200 (Setaflash)

Extinguishing Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam.

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## 7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes.

STORAGE: Keep from freezing. Keep container closed when not in use.

## 8. Exposure Controls/Personal Protection

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking.

## 9. Physical and Chemical Properties

Vapor Density	Heavier than Air	Odor:	Mild
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in Water:	Miscible	Freeze Point:	N.D.
Specific Gravity:	1.012	pH:	N.D.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid contact with strong acid and strong bases.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information				
Chemical Name	<u>LD50</u>	<u>LC50</u>		
Propylene Glycol Monobutyl Ether	2200 mg/kg (Rat, Oral)	N.E.		
12. Ecological Information				
ECOLOGICAL INFORMATION: Product is a mixture of listed components.				

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter waterways, wastewater. soil, storm drains or sewer systems.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Not Regulated	Not Regulated	Not Regulated
Hazard Class:	N.A.	N.A.	N.A.
UN Number:	N.A.	N.A.	N.A.
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	No	No

## 15. Regulatory Information

## U.S. Federal Regulations:

### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

#### Chemical Name

5-chloro-2-methyl-4-isothiazolin-3-one Methyl-4-isothiazolin-3-one

## CAS-No.

26172-55-4 2682-20-4

## International Regulations:

## **CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: D2B

16. Other In	formation						
HMIS Ratings:					_		
Health: 2	Flammability:	1	Physical Haz	ard:	0	Personal Protection:	Х
NFPA Ratings:							
Health: 2	Flammability:	1	Instability	0			
Volatile Organic	c Compounds, g/L:	53					
REASON FOR	REVISION: F	Regulatory Update	9				

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Section 1 General Information

### Manufacturer:

Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 24 Hour Assistance: 1-847-367-7700 www.rustoleum.com

Date: April 6, 2009

Product Name: Jomax RTU Mold Killer & Deodorizer

Codes: 60190 60191

# Section 2 Hazardous Ingredients

		OSHA	ACGIH
<u>Hazardous Component</u>	CAS#	PEL	<u>TLV</u>
Oxychlorine Compounds	N/A	N/E	N/E
Dimethyl Didecyl Ammonium Chloride	7173-51-5	N/E	N/E
Alcohols	N/A	N/E	N/E

# Section 3 Hazard Identification

## **Emergency Overview:**

## Hazards to Human & Domestic Animals

Caution: Cause moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid contamination of food.

## **Primary Routes of Exposure:**

Skin Contact Eye Contact Inhalation

## **Potential Acute Health Effects:**

Eye Contact: Causes moderate irritation.

Skin: Causes irritation. Prolonged contact may cause dermatitis.

**Ingestion:** Ingestion may be harmful and may causes irritation of the gastrointestinal tract, nausea, vomiting and diarrhea. Ingestion of large amounts may cause central nervous system depression.

**Inhalation:** Inhalation causes respiratory tract irritation and coughing. Exposure to high concentrations results in central nervous system depression with symptoms of headache, dizziness, fatigue, muscular weakness, drowsiness, in-coordination and unconsciousness.

**Note:** Upon contact with acids, organic materials, reducing agents or chlorine donors, this product will release CHLORINE DIOXIDE gas. Inhalation of chlorine dioxide can cause respiratory tract irritation, coughing, wheezing and burns of the mucous membranes. Inhalation of large amounts may lead to pulmonary edema and bronchitis. Prolonged or repeated inhalation of chlorine dioxide gas may cause chronic bronchitis or emphysema. Direct contact with chlorine dioxide causes eye and skin irritation and may cause burns. Chlorine Dioxide is toxic by ingestion. Oxychlorine compounds have been shown to cause blood disorders in laboratory animals. Exposure to chlorine dioxide may aggravate existing medical conditions may aggravate existing medical conditions such as eye, skin and respiratory disorders and allergies.

(See also Sections 4, 8, and 11for related information)

# Section 4 First Aid Measures

## KEEP OUT OF REACH OF CHILDREN

**Eye contact:** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

**Ingestion:** If swallowed, call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage

# Section 5 Fire Fighting Measures

Flash Point (method): >200 F (>93 degrees C)

Method: PMCC

Extinguishing Media: Water

**Protection of Firefighters:** Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

# Section 6 Accidental Release Measures

**Safeguards (Personnel):** Note: Review Fire Fighting Measures and Handling sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures: Flush with water to dilute. Do not allow contact with rags, paper or other oxidizable materials. For large spills, evacuate area, contain liquid and transfer to closed polyethylene drums. Prevent contact with oxidizers and acids. Do not allow liquid solution to dry. Keep out of water supply. Flush area with water after liquid is removed.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

# Section 7 Handling and Storage

**Handling:** Do not breathe vapor or mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use. Avoid contamination of food and feed products. Do not allow solution to evaporate to dryness. Protect from heat, freezing and ultraviolet light. Keep container closed

**Storage:** Store in original closed container in a cool, dry place away from heat and open flame.

# Section 8 Exposure Controls / Personal Protection

**Engineering Controls:** Use only with adequate ventilation. Safety shower and eyewash facilities should be immediately accessible.

# **Personal Protective Equipment (PPE):**

**Eye Protection:** Wear safety glasses. Where splash potential exists, wear chemical splash goggles.

Skin Protection: Impervious gloves.

**Respiratory Protection:** Wear NIOSH approved respiratory protection, as appropriate.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

**Protective Clothing:** Where there is potential for skin contact, have available and wear as appropriate impervious gloves, apron, pants and jacket and boots.

**General Hygiene Practices:** Avoid eye and skin contact. Avoid breathing vapors. Wash hands before eating and drinking. Do not smoke while using this material.

# Section 9 Physical Data

Appearance: Clear	Odor:	Alcohol
Physical State: liquid Solution	pH:	9.0
<b>Boiling Point:</b> 93.3 degrees C	Vapor	Pressure: Approximates Water
Solubility in Water: 100%	Densi	ty: 8.44 lb/gallon
<b>Specific Gravity</b> (water = 1):	.012	

# Section 10 Stability and Reactivity

**Stability:** Stable at normal temperature and storage conditions.

Hazardous Polymerization: Polymer	Polymerization will not occur		
Hazardous Decomposition Products:	Decomposes with heat and UV light.		
Incompatibility with Other Materials:	None reasonably foreseeable.		

# Section 11 Toxicological Information

**Carcinogenicity:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

(See also Section 15 for related information)

# Section 12 Ecological Information

No Data Available

# Section 13 Disposal Considerations

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

Jomax Mold Killer & Deodorizer

**RCRA Hazardous Waste:** This material is not considered hazardous waste under Federal Hazardous Waste Regulations (40CFR 261). However, state and local requirements for waste disposal may be more restrictive or otherwise differ from federal regulations. Chemical additions, processing or otherwise altering this material may render the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Consult all applicable federal, state, and local regulations regarding the proper disposal of this material. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local Regulations.

**Recommended Waste Disposal Method:** Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. For container disposal, triple rinse (or equivalent), then place in trash receptacle.

# Section 14 Transportation Information

This product is not regulated as a hazardous material by DOT, IMO, or IATA

# Section 15 Regulatory Information

## **CERCLA:**

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

N/A: Not Applicable	N/D: Not Determined	N/E: Not Established	N/R: Not Required	Est.: Estimated
---------------------	---------------------	----------------------	-------------------	-----------------

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## FIFRA Registration:

EPA registration number is 71654-22-71240

## TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product does not contain any chemicals that require export notification under Section 12(b) of the TSCA regulation.

# Section 16 Other Information

Legend:	N/A: Not Applicable	<b>N/D</b> : Not Determined
	N/E: Not Established	N/R: Not Required
	cps: Centipoise	<b>KU</b> : Krebs Units
	<b>STEL</b> : Short Term Exposure Limit	C: OSHA Ceiling Value
	<b>PPM</b> : Parts per Million	<b>PPB</b> : Parts Per Billion
	PEL: Permissible Exposure Limit	TLV: Threshold Limit Value
	TWA: Time Weighted Average	<b>mg/m<sup>3</sup></b> : Milligrams per cubic Meter
	mppcf: Million particles per cubic foot of a	ir.
	ACGIH: American Conference of Government	mental Industrial Hygienists
	<b>OSHA</b> : Occupational Safety and Health Ad	lministration (US Dept. of Labor)
	PMCC: Pensky-Martens Closed Cup	
	RCRA: Resource Conservation and recover	ry Act
	SARA: Superfund Amendment and Reauth	orization Act
	TSCA: Toxic Substance Control Act	
	FHSA: Federal Hazardous Substance Act	
Prepared 1	By: Rust-Oleum Regulatory Compliance De	ept.

173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

**Disclaimer:** Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liabilities for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the

final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

# Section 1 General Information

Manufacturer: Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 24 Hour Assistance: 1-847-367-7700 www.rustoleum.com

Date: April 9, 2009

Product Name: Zinsser PermaWhite<sup>®</sup> Mold & Mildew Proof\* Interior Paint

Gloss Level: Satin

Product Codes: 02700 02702 02704 02705 02711

# Section 2 Hazardous Ingredients

Hazardous Component	CAS#	OSHA <u>PEL</u>	ACGIH <u>TLV</u>
Calcium Carbonate	471-34-1	15 mg/m <sup>3</sup> * (5 mg/m <sup>3</sup> **)	10 mg/m <sup>3 =</sup> (3 mg/m <sup>3</sup> **)
Limestone	1317-65-3	15 mg/m <sup>3</sup> * 5 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>
Talc	14807-96-6	20 mppcf	1 mg/m <sup>3</sup> **
Titanium Dioxide	13463-67-7	15 mg/m <sup>3</sup> *	10 mg/m <sup>3</sup>
Zinc Oxide	1314-13-2	15 mg/m <sup>3</sup> *	2 mg/m <sup>3</sup> (10 mg/m <sup>3*</sup> STEL)

\* Total Dust \*\* Respirable Dust Fraction

# Section 3 Hazard Identification

**Product Overview**: This material is a wall paint. It is a stable, non-flammable, white flowable liquid with a flashpoint above 200° Fahrenheit.

## **Primary Routes of Exposure:**

Eye Contact Skin Contact Inhalation

## Potential Acute Health Effects:

Eye: May cause eye irritation.

**Skin**: Prolonged contact may cause skin irritation. Absorption through skin contact not considered a significant route of exposure.

**Ingestion**: Although ingestion not considered a significant route of exposure, Gastrointestinal irritation and nausea may occur if swallowed.

**Inhalation**: Although inhalation is not considered a significant route of exposure, high vapor concentrations may cause respiratory irritation.

Potential Chronic Health Effects: None known.

(See also Sections 4, 8, and 11 for related information)

# Section 4 First Aid Measures

**Eye contact**: Flush eye with water for 15 minutes. Get medical attention.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion**: If swallowed, call a physician or poison control center.

**Inhalation**: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapor, remove victim to fresh air and seek medical attention if cough or other symptoms develop.

# Section 5 Fire Fighting Measures

The liquid material will not burn. However, the dried paint film may burn in a fire.

Flash Point (method): >200° F.

**Extinguishing Media**: Use water spray, foam, or carbon dioxide when fighting fires involving this material.

**Protection of Firefighters**: As in any fire, wear self-contained breathing apparatus in pressure demand mode and full protective gear.

# Section 6 Accidental Release Measures

**Clean Up Methods**: Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.). Transfer liquid to containers for recovery or disposal, or absorb with absorbent materials and place into containers for disposal. Keep spill out of sewer and open bodies of water. Floors may be slippery; care should be exercised to avoid falls during clean up operations. (See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

# Section 7 Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing.

**Storage**: Keep from freezing. Keep container closed when not in use.

# Section 8 Exposure Controls / Personal Protection

**Engineering Controls**: If exposure conditions warrant, use mechanical local exhaust ventilation or general dilution ventilation to reduce vapor concentrations.

# **Personal Protective Equipment (PPE):**

**Eye Protection**: Wear safety glasses or face shield to prevent eye and face contact.

Skin Protection: Wear gloves to prevent prolonged skin contact.

**Respiratory Protection**: None required under normal, intended use conditions. If vapor exposure causes discomfort and in areas of poor ventilation wear NIOSH approved respirator.

**Protective Clothing**: For brief contact, no special precautions other than clean body-covering clothing should be needed. When prolonged or frequent repeated contact with the material could occur, use protective clothing that is impervious to this material (such as tyvek).

**General Hygiene Practices**: Wash thoroughly after handling. Prevent Eye contact. Avoid prolonged skin or inhalation contact.

# Section 9 Physical Data

Appearance:	White emulsion.	<b>Boiling Point</b> :	N/D (est. >200 ° F)
Odor:	Slight ammonia like	Freezing Point:	N/D (est. 32 ° F)
Physical State:	Liquid.	pH:	9 - 10
Specific Gravity:	1.34 (water = 1).	Viscosity:	1100 - 3000 cps
Soluble in Water:	Yes		

# Section 10 Stability and Reactivity

Stability: Stable. Not reactive.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None known.

Hazardous Conditions to Avoid: None known.

**Incompatibility**: None known.

# Section 11 Toxicological Information

**Carcinogenicity**: The following ingredients are present at greater than 0.1% and are classified by IARC, NTP, or OSHA as carcinogenic:

Ingredient	CAS #	<u>IARC</u>	<u>NTP</u>	OSHA
None	N/A	N/A	N/A	N/A

(See also Section 15 for related information)

# Section 12 Ecological Information

Chemical Fate and Effects: No data available.

# Section 13 Disposal Considerations

**Recommended Waste Disposal Method**: This material is not considered hazardous waste under federal hazardous waste regulations (40 CFR 261). However, state and local requirements for waste disposal may be more restrictive or otherwise differ from federal regulations. Chemical additions, processing or otherwise altering this material may render the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Consult all applicable federal, state, and local regulations regarding the proper disposal of this material.

# Section 14 Transportation Information

Not regulated by USDOT

# Section 15 Regulatory Information

## CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

## TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product does not contain any chemicals that require export notification under Section 12(b) of the TSCA regulation.

# Section 16 Other Information

Legend: N/A: Not Applicable N/E: Not Established

N/D: Not Determined N/R: Not Required

STEL: S	hort Term Exposure Limit	C: Ceiling Limit
<b>PPM</b> : Pa	rts Per Million	<b>PPB</b> : Parts Per Billion
PEL: Per	missible Exposure Limit	TLV: Threshold Limit Value
TWA: Ti	me Weighted Average	<b>Mg/M<sup>3</sup></b> : Milligrams per cubic Meter
> Greater	Than	< Less Than
Mppcf:	Million particles per cubic foot	of air
ACGIH:	American Conference of Govern	nmental Industrial Hygienists
CERCLA	: Comprehensive Environmental	Response Compensation and Liability Act
<b>OSHA</b> :	Occupational Safety and Health	Administration (US Dept. of Labor)
RCRA:	Resource Conservation and Rec	overy Act
SARA:	Superfund Amendment and Rea	uthorization Act
TSCA:	Toxic Substance Control Act	

Prepared By: Rust-Oleum Regulatory Compliance Dept. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

**Disclaimer:** Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.



### Section 1: Product and Company Identification

Product Name:	Zoom Spout® Oiler
Product Code:	79704
Product Use:	Lubricating oil for general applications.
Supplier:	LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746 E-mail Contact: customer_service@laco.com
Phone Number: Fax: 24-hour Emergency:	(847) 956-7600 (847) 956-9885 CHEMTREC: (800) 424-9300

### Section 2: Hazards Identification

2.1 Classification of the substance or mixture according to GHS Classifications (UNECE 3<sup>rd</sup> Revised Edition): Not classified as a hazardous chemical.

#### 2.2 Label elements:

No hazard classifications.

# 2.3 Other hazards:

May cause an allergic skin reaction in some individuals.

#### 2.4 Other hazard classifications:

USA: This material is not considered a hazardous chemical by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (2012).

Canada: This is not a controlled product under WHMIS.

European Union (EU): This product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

### Section 3: Composition / Information on Ingredients

Chemical Name	CAS No.	<u>Wt.%</u>	GHS Classifications according to UNECE 3 <sup>rd</sup> Revised Edition
Lubricating base oil and proprietary additives. No hazardous/dangerous ingredients by OSHA and WHMIS criteria.	Not available	100	Not classified

### Section 4: First Aid Measures

#### 4.1 Description of first aid measures:

**Inhalation:** If symptoms are experienced, remove source of contamination or have victim move to fresh air. Obtain medical advice.

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelids open. If irritation persists, obtain medical attention.

Skin Contact: If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Ingestion:** If swallowed, do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Obtain medical advice or call a POISON CENTER or doctor/physician.

#### 4.2 Most important symptoms and effects, both acute and delayed:

**Skin Contact:** A component of this material may cause an allergic skin reaction. Symptoms may include redness and a burning sensation.

**Ingestion:** Not an expected route of exposure with normal use of the product. Acute oral toxicity of the component substances is low. Ingestion of large amounts of the product may cause nausea, vomiting and diarrhea.



### Section 5: Fire Fighting Measures

#### 5.1 Extinguishing media:

For small fires, use dry chemicals, carbon dioxide, appropriate foam, or inert gas (nitrogen). For large fires, use appropriate foam, water fog, or water spray. Water can be used to cool fire-exposed containers. Do not use water iet: may spread the fire.

#### 5.2 Special hazards arising from the substance:

Not classified as a flammable or combustible liquid. Product will burn if involved in a fire. Flashpoint: >150°C (>302°F) ASTM D93.

#### 5.3 Advice for firefighters:

If involved in a fire, combustion may produce toxic and irritating fumes and gases including carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, smoke, fumes, and/or unburned hydrocarbons.

As for any fire, evacuate the area and fight the fire from a safe distance. Firefighters must wear full protective clothing and positive pressure self-contained breathing apparatus.

#### Section 6: Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Shut off or extinguish all sources of ignition. Avoid contact with skin and eyes. Ventilate the area.

#### 6.2 Environmental precautions:

Prevent the spilled liquid from entering sewers or waterways.

#### 6.3 Methods and material for containment and cleaning up:

Stop the spill if it is safe to do so.

Absorb the spilled liquid using dry earth, sand or non-combustible absorbent material and transfer to appropriate, covered and labeled waste containers.

#### 6.4 Additional Information:

See Section 8 for information on selection of personal protective equipment. See Section 13 for information on disposal of spilled product and contaminated absorbents.

## Section 7: Handling and Storage

#### 7.1 Precautions for safe handling:

Keep out of reach of children. Avoid contact with skin and eyes. Do not use near hot surfaces or flames. No smoking.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well ventilated place. Keep cool. Keep containers tightly closed when not in use.

### Section 8: Exposure Controls/Personal Protection

#### 8.1 Control parameters:

#### **Occupational Exposure Limits:**

Consult local authorities for acceptable exposure limits.

<u>Component</u>	<u>ACGIH TLV</u>	<u>U.S. OSHA PEL</u>	British Columbia (Canada)
	(8-hr. TWA) (mg/m <sup>3</sup> )	<u>(</u> 8-hr. TWA) (mg/m <sup>3</sup> )	TWA (mg/m <sup>3</sup> )
Lubricant Base Oil (Petroleum)	Not available	5 mg/m <sup>3</sup> as Oil Mist, if generated	Not available



#### Product Name: Zoom Spout® Oiler Revision Date: February 13, 2013 Page 3 of 6

# SAFETY DATA SHEET

### Section 8: Exposure Controls/Personal Protection, continued

#### 8.2 Exposure controls:

Engineering Controls:

General ventilation is normally adequate.

**Personal Protection:** Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

**Eye/Face Protection:** Not required for normal use. Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

Skin Protection: Not required for normal use. Wear heavy duty gloves made of nitrile when needed to prevent repeated or prolonged skin contact.

**Respiratory Protection:** If ventilation and other engineering controls and work practices are not effective in controlling exposure to mists/aerosols of this material, then wear suitable personal protective equipment including approved respiratory protective equipment (RPE). In workplaces where respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Consult with respirator manufacturer to determine respirator selection, use and limitations.

**Other Protection:** If product comes in contact with clothing, immediately remove soaked clothing. Promptly remove and discard contaminated leather goods (e.g. watchbands, belts).

### Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:	
Appearance:	Liquid, clear, colorless.
Odor:	Petroleum
Odor threshold:	Not applicable
pH:	Not applicable
Melting point/freezing point:	< -18°C (0.4°F)
Initial boiling point and boiling range:	Not available
Flash point:	>150°C (>302°F) ASTM D93
Flammability	Will burn but does not ignite readily.
Auto-ignition temperature:	Not available
Upper/lower flammability or explosive limits:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available
Sensitivity to mechanical impact:	Not available
Sensitivity to static discharge:	Not available
Vapor pressure:	<1 mm Hg
Evaporation rate:	<1 (n-butyl acetate = 1)
Vapor density:	<1
Relative density:	0.86 – 0.87 (water = 1)
Solubility (is):	Insoluble in water.
Partition coefficient (n-octane/water):	Not available
Decomposition temperature:	Not available
Viscosity:	30 – 110 @ 30°C
- -	5 - 11 cSt @ 100°C ASTM D445

### Section 10: Stability and Reactivity

#### 10.1 Reactivity:

Not classified for reactivity hazards.

#### 10.2 Chemical Stability:

Stable at normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### **10.3 Possibility of Hazardous Reactions:**

None known

#### 10.4 Conditions to Avoid:

Do not use in conditions of heat or near open flames and sparks.



## Section 10: Stability and Reactivity, continued

#### 10.5 Incompatible Materials:

Incompatible with strong oxidizers, such as chlorine and oxygen, and strong reducing agents.

#### **10.6 Hazardous Decomposition Products:**

Not available. Combustion may produce irritating and/or toxic gases.

#### Section 11: Toxicological Information

#### 11.1 Information on toxicological effects:

#### Acute Health Effects:

**Inhalation:** This product does not easily form a vapor; inhalation exposure is unlikely to occur, unless this material is heated or misted. Exposures to high vapor or mist concentrations may cause respiratory tract irritation.

Ingestion: Not an expected route of exposure with normal use of the product.

Skin: Contact with the skin may cause irritation. Symptoms may include redness and a burning sensation.

Eye: Direct contact with the liquid may cause irritation.

#### Acute Toxicity Data::

Component Substance	<u>LD</u> ₅₀ <u>Oral</u>	<u>LD</u> ₅₀ <u>Dermal</u>	<u>LC<sub>50</sub> Inhalation</u>
	(mg/kg)	(mg/kg)	(4 hrs.)
Lubricant oil	>5 000 (species not available)	>2 000	Not available

#### **Chronic Health Effects:**

Data are not available.

#### Sensitization:

Data are not available for the product. Contains a substance (>1% wt/wt) which may cause an allergic skin reaction.

#### **Neurological Effects:**

Data are not available.

#### Genetic Effects:

Data are not available.

#### **Reproductive Effects:**

Data are not available.

#### **Developmental Effects:**

Data are not available.

#### **Target Organ Effects:**

Data are not available.

#### Carcinogenicity:

The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

#### Medical Conditions Aggravated by Exposure:

Repeated skin contact may aggravate an existing dermatitis.

#### Interactions With Other Chemicals:

Data are not available.



### Section 12: Ecological Information

#### 12.1 Toxicity:

Assays have demonstrated acute aquatic toxicity values greater than 1000 mg/L.

#### 12.2 Persistence and degradability:

Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface. Not readily biodegradable.

#### 12.3 Bioaccumulative potential:

Log Kow values measured for the hydrocarbon components of this material range from 4 to 6.

#### 12.4 Mobility in soil:

Not available

#### Section 13: Disposal Considerations

#### 13.1 Waste treatment methods:

Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. Dispose of in accordance with local, state/provincial and federal laws and regulations.

The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

#### Section 14: Transport Information:

1.11

Transport Regulations: U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated. If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)
Canadian Transportation of Dangerous Goods (TDG):	Not regulated as a dangerous good for transport.
IMO Classification:	Not regulated as a dangerous good for transport.
ICAO/IATA Classification:	Not regulated as a dangerous good for transport.

### Section 15: Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

OSHA: Non-Hazardous Chemical according to OSHA Hazard Communication Standard 29 CFR 1910.120 (2012).

#### SARA Title III

USA

Sec. 302/304:	None
Sec: 311/312:	Not applicable
Sec. 313:	None
CERCLA RQ:	None

California Prop 65:

Not applicable



### Section 15: Regulatory Information, continued

#### Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

### WHMIS Classification:

Not controlled

#### **DSL Status:**

All component substances listed on the DSL (Domestic Substances List).

#### NPRI Substances:

Not applicable

#### Europe

OSHA: This product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

### Section 16: Other Information

#### **Preparation Information:**

Revision date: February 13, 2013

#### References and sources for data:

CCOHS – ChemInfo

#### Legend to abbreviations:

Legend to abbit	
	ACGIH – American Conference of Governmental Industrial Hygienists
	GHS- Globally Harmonised System for Classification and Labeling
	IARC – International Agency for Research on Cancer
	LD50- Median lethal dose; the dose causing 50 % lethality
	LEV- Local exhaust ventilation
	OSHA – United States, Occupational Safety and Health Administration
	STEL – Short term exposure limit
	TWA – Time weighted average
	TLV - Threshold Limit Value
	NTP – National Toxicology Program
	WHMIS – Canada, Workplace Hazardous Materials Information System
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#### DRUMMOND AMERICAN CORP -- ZYMOX, DA6440 -- 7930-00N022473

Product ID: ZYMOX, DA6440 MSDS Date:07/01/1988 FSC:7930 NIIN:00N022473 MSDS Number: BLWXD === Responsible Party === Company Name: DRUMMOND AMERICAN CORP Address:1700 SHERWIN AVE City:DES PLAINES State:IL ZIP:60018 Country:US Info Phone Num: 312-297-1777 Emergency Phone Num: 312-297-1777;800-424-9300 (CHEMTREC) Preparer's Name:RICK LOWE CAGE: 64557 === Contractor Identification === Company Name: DRUMMOND AMERICAN CORPORATION Address:600 CORPORATE WOODS PKWY. Box:City:VERNON HILLS State:IL ZIP:60061 Country:US Phone: 708-913-9313 CAGE: 64557 Ingred Name: ALKANES, C-3 TO C-4 (PROPELLANT) CAS:68475-59-2 Fraction by Wt: 1.5% LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation: NO Skin: YES Ingestion: YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE OR SKIN IRRITATION. CAUSES GASTROINTESTINAL IRRITATION. Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure:SEE HEALTH HAZARDS. Medical Cond Aggravated by Exposure: UNKNOWN TO THE MANUFACTURER. First Aid:SKIN: WASH OFF WITH SOAP & WATER. EYES: FLUSH W/WATER FOR A MINIMUM OF 15 MINUTES. CALL MD IF IRRITATION PERSISTS. INGEST: DRINK LARGE AMOUNTS OF WATER OR MILK. CALL MD. INHAL: REMOVE TO FRESH AIR. SU PPORT BREATHING (GIVE O\*2/ARTF RESP) . 

### ZYMOX, DA6440 by DRUMMOND AMERICAN CORP

Flash Point Method: TOC Extinguishing Media:WATER FOG. Fire Fighting Procedures: TREAT AS CYLINDER OF COMPRESSED GAS. KEEP CONTAINERS COOL. USE NIOSH/ MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . Unusual Fire/Explosion Hazard:AT ELEVATED TEMPERATURES (OVER 130F) CONTAINERS MAY VENT, RUPTURE OR BURST. Spill Release Procedures: REMOVE SOURCES OF HEAT, FLAMES OR SPARKS. PROVIDE ADEQUATE VENTILATION. MOP UP SPILLS, THEN RINSE WITH WATER. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: CONTENTS UNDER PRESSURE. STORE IN A DRY, COOL AREA. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WHERE TEMPERATURES MAY EXCEED 130F. Other Precautions: READ ENTIRE LABEL BEFORE USING. Respiratory Protection: NONE REQUIRED. IF NECESSARY, USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . Ventilation: MECHANICAL (GENERAL): MAINTAIN ADEQUATE VENTILATION. Protective Gloves: IMPERVIOUS GLOVES . Eye Protection: CHEMICAL WORKERS GOGGLES . Other Protective Equipment:NOT REQUIRED. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER. Boiling Pt:B.P. Text:212F,100C Vapor Pres:18 Vapor Density: