

Page 1 of 6 **SDS-046G** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.1 SDS Revision Date: 2/8/2016 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: **OPI MICROBOND UV-CURE TOP COAT** 12 Chemical Name Solvent Polymer Blend 1.3 Synonyms NA 1.4 Trade Names MBM61, MBM64, MBM66 1.5 Product Use: Cosmetic Use Only 1.6 Distributor's Name: **OPI Products, Inc.** 1.7 Distributor's Address: 13034 Saticoy Street, No. Hollywood, CA 91605 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377) 1.9 Business Phone / Fax: +1 (818) 759-2400 / +1 (818) 759-5776 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Classification: Flam. Liq. 2; Skin Sens. 1A; Eye irrit. 2A; STOT SE 3 Hazard Statements (H): H225 - Highly flammable liquid and vapor. H317 - May cause an allergic skin reaction. H319 - Causes serious eve irritation. H335 - May cause respiratory irritation. H336 May cause drowsiness or dizziness. Precautionary Statements (P): P210 - Keep away from heat/sparks/open flame/hot surfaces - No Smoking. P233 - Keep container tightly closed. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash exposed skin areas thoroughly with soap and water after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with soap and water. P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P333+P313 - If skin irritation or a rash occurs - Get medical advice/attention. P321 - For specific first aid treatment (See Section 4 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P370+P378 – In case of fire, CO<sub>2</sub>, Halon (if permitted), dry chemical, or foam for extinction. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m<sup>3</sup>) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-STEL RTECS No. EINECS No тιν STEL PEAK PEL IDI H OTHER CHEMICAL NAME(S) CAS No. TWA STEL 200 1700 100 NIOSH 15-40 AF7350000 204-658-1 150 200 150 200 NF 200 123-86-4 BUTYL ACETATE Flam. Liq. 3; STOT SE 3; H226, H336 400 400 200 400 NF NA NA 2000 400 TWA 141-78-6 AH5425000 205-500-4 10-30 ETHYL ACETATE Flam. Liq. 2; Acute Tox.-Inhalation 5; Eye Irrit. 2A; STOT SE 3; H225, H319, H336 NT8050000 200-661-7 10-30 400 500 400 500 NF 400 500 2000 400 TWA 67-630 **ISOPROPYL ALCOHOL** Flam. Liq. 2; Skin Irrit. 3; Eye Irrit. 2A; STOT SE 3; H225, H316, H319 25133-97-5 NA NA 5-10 NA NA NF NF NF NA NA NA ACRYLATES COPOLYMER 9004-36-8 NA NA 5-10 NE NE NF NF NE NE NE CELLULOSE ACETATE BUTYRATE ADIPIC ACID/NEOPENTYL/GLYCOL 28407-73-0 NA NA 1-5 NA NA NF NF NF NA NA NA TRIMELLITIC ANHYDRIDE Skin Sens. 1; H317 COPOLYMER TRIMETHYL PENTANYL SA1420000 229-934-9 0.1-1 NA NA NF NF NF NA NA NA 6846-50-0 DIISOBUTYRATE 81-48-1 OZ4725000 212-782-2 0.1-1 NA NA NF NF NF NA NA NA CI 60725 (VIOLET 2)



Page 2 of 6 **SDS-046G** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 4.1

SDS Revision Date: 2/8/2016

		4. FIRST AID MEASURES								
4.1	IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never of unconscious person. Contact the nearest Poison Control Center or local emergen estimate of the time at which the material was ingested and the amount of th swallowed.									
		Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.								
		Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.								
4.2	Effects of Exposure:	Inhalation: Remove victim to fresh air at once. Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system								
		<u>Eves</u> :       Mildly to moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. <u>Skin</u> :       May be irritating to skin in some sensitive individuals, especially after prolonged contact. <u>Inhalation</u> :       Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition & Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches,								
4.3	Symptoms of Overexposure:	nausea). Symptoms of skin overexposure in some sensitive individuals may include redness, itching, and irritation of affected								
		areas. Overexposure in eyes may cause redness, itching and watering.								
4.4	Acute Health Effects:	Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.								
4.5	Chronic Health Effects:	None known.								
4.6	Target Organs:	Eyes, Skin, Respiratory System.								
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system).       HEALTH       1         FLAMMABILITY       3         PHYSICAL HAZARDS       0								
		PROTECTIVE EQUIPMENT B								
		EYES SKIN								
		5. FIREFIGHTING MEASURES								
5.1	Fire & Explosion Hazards:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.								
5.2	Extinguishing Methods:	CO <sub>2</sub> , Halon (if permitted), Dry Chemical, Foam, as authorized.								
5.3	Firefighting Procedures:	This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container.								
		First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. <u>HazChem Code</u> : 3(Y)E <u>Hazard Identification Number</u> : 33								
		6. ACCIDENTAL RELEASE MEASURES								
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles gloves). Maximize ventilation (open doors and windows. Remove spilled material with absorbent material and place intra appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water.								



Page 3 of 6 **SDS-046G** 

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SDS Revision: 4.1

SDS Revision Date: 2/8/2016

	7. HANDLING & STORAGE INFORMATION								
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.							
7.2	Storage & Handling:	Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (See Section 10).							
7.3	Special Precautions:	Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.							

8. EXPOSURE CONTROLS & PERSONAL PROTECTION								
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8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA O		OTHER					
	ppm (mg/m <sup>3</sup> )	CHEMICAL NAME(S)	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH						
		ETHYL ACETATE	400	400	200	400	NF	NA	NA	2000	400 TWA					
		BUTYL ACETATE	150	200	150	200	NF	200	200	1700	100 NIOSH					
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA					
8.2	Ventilation & Engineering Controls:	When working with large quare Ensure that an eyewash station									haust ventilation, fans).					
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.								R						
8.4	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.														
8.5	Hand Protection:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.								e 🐠						
8.6	Body Protection:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL.       However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.							5							

### 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Opaque, semi-viscous liquid
9.2	Odor:	Ester-like (fruity) odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	171 – 640 °F
9.7	Flashpoint:	- 4 °C (24 °F) TCC
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	35 - 42 mm Hg
9.10	Vapor Density:	3.2 - 3.6 @ 20 °C (68 °F) (Air = 1)
9.11	Relative Density:	0.9980 – 1.0008
9.12	Solubility:	Insoluble in water
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	1,000 – 3,000 cPs
9.17	Other Information:	NA

e and Handling).
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position may include irritating vapors and
light sources, sparks, flame.
kides), strong acids (e.g., hydrochloric or n t-butoxide.
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Page 4 of 6 **SDS-046G** 

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1.1	Deutes of E. (	11. TOXICOLOGICAL INFORMATION						
	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES						
1.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, available for some of the components of the product and is presented below:						
		<u>Ethyl Acetate</u> : $LD_{50}$ (oral, rat) = 5,620 mg/kg; $LD_{50}$ (oral, mouse) = 4,100 mg/kg; $LC_{50}$ (inh-6h, rat) = 16,000 ppm.						
1.3	Acute Toxicity:	See Section 4.4						
1.4	Chronic Toxicity:	See Section 4.5						
.5	Suspected Carcinogen:	This product contains <u>Ethyl Acetate</u> and <u>Isopropyl Alcohol</u> , which are not carcinogenic to humans, but are listed a Group 3 carcinogens by the IARC.						
.6	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.						
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.						
Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.								
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.						
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.						
.7	Irritancy of Product:	See Section 4.3						
.8	Biological Exposure Indices:	NE						
.0	Physician Recommendations:							
.9	r hysician Neconimendations.	Treat symptomatically.						
		12. ECOLOGICAL INFORMATION						
.1	Environmental Stability:	The components of this product will slowly degrade over time into a variety of organic compounds. Speci environmental data available for the components of this product are as follows:						
		Butyl Acetate: $K_{oc} = 1.82$ . Water solubility: 120 parts $H_2O$ at 25 °C (77 °F). Bioconcentration Factor = 4-1						
		Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environmer						
		from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours.						
		<u>Ethyl Acetate</u> : $K_{oc} = 0.73$ . Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is n						
		anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and						
		biodegradation. This compound's half-life in water is 6.1 hours.						
		Isopropyl Alcohol: Log K <sub>ow</sub> = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation						
		of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated ha						
		life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.						
2.2								
	Effects on Plants & Animals:	There are no specific data available for this product.						
	Effects on Aquatic Life:							
		There are no specific data available for this product; however, very large releases of this product may be harmful or fat to overexposed aquatic life.						
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2.3 3.1 3.2 The t may   14.1 14.2 14.3 14.4 14.5 14.6	Effects on Aquatic Life: Waste Disposal: Special Considerations: Dasic description (ID Number be required by 49 CFR, IATA 49 CFR (GND): IATA (AIR): IMDG (OCN): TDGR (Canadian GND): ADR/RID (EU): SCT (MEXICO):	There are no specific data available for this product; however, very large releases of this product may be harmful or fat to overexposed aquatic life. <b>13. DISPOSAL CONSIDERATIONS</b> Dispose of in accordance with all Federal, state, and local regulations. U.S. EPA Characteristic Waste: D001 (ignitability) <b>14. TRANSPORTATION INFORMATION</b> , proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive informativ //CAO, IMDG and the CTDGR. UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L) or CONSUMER COMMODITY, ORM-D – until 01/01/2021 ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) UN1263, PAINT RELATED MATERIAL, 3, II (IP VOL ≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L); or "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)						
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Page 5 of 6 **SDS-046G** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 4.1

SDS Revision Date: 2/8/2016

		15. REGULATORY I	NFORMATION								
15.1	SARA Reporting Requirements:	product contains Ethyl Acetate, a substance that	e subject to SARA Title III, Section 313 reporting requirements. This is subject to SARA Title III, Section 304 reporting.								
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantit	ties for the components of this product.								
15.3	TSCA Inventory Status:	The components of this product are listed on the									
15.4	CERCLA Reportable Quantity (RQ):	Ethyl Acetate: 2,270 kg (5,000 lbs); Butyl Acetate	<u>e</u> : 2,270 kg (5,000 lbs)								
15.5	Other Federal Requirements:	This product complies with the appropriate sec (Cosmetics).	ctions of the Food and Drug Administration's 21 CFR subchapter G								
15.6	Other Canadian Regulations:	Sheet contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS B2, D2B (Flammable Liquid, Other Toxic Effects)									
15.7	State Regulatory Information:	Butyl Acetate is found on the following state criteria lists: California OSHA Hazardous Substances List (CA), Delaware Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ), New York List of Hazardous Substances (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List for Air Contaminants (WA), Wisconsin Hazardous Substances List (WI). Ethyl Acetate is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA. Isopropanol is found on the following state criteria lists: CA, MA, MN, NJ, PA, and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY),									
15.8	Other Requirements:	List (WI). The primary components of this product are listed <u>Ethyl Acetate</u> : Flammable (F). <u>Risk Phrases</u> (R): respiratory system and skin. <u>Safety Phrases</u> children. Keep away from sources of ignition - I spray. Do not empty into drains. Take precaution <u>Butyl Acetate</u> : Flammable (F). <u>Risk Phrases</u> (R Keep container in a well-ventilated place. Keep precautionary measures against static discharges <u>Isopropanol</u> : Flammable (F). <u>Risk Phrases</u> (R): respiratory system. <u>Safety Phrases</u> (S): 2-7-16-2	<ul> <li>11-36/37/38 – Highly flammable. Irritating to eyes, <u>5</u> (S): 2-16-23-29-33 – Keep out of the reach of No smoking. Do not breathe gas, fumes, vapor or ary measures against static discharges.</li> <li>10 - Flammable. <u>Safety Phrases</u> (S): 9-16-33 - away from sources of ignition - No smoking. Take s.</li> <li>11-36/37 – Highly flammable. Irritating to eyes and 24/25/26 – Keep out of the reach of children. Keep sin and eyes. In case of contact with eyes, rinse</li> </ul>								
		16. OTHER INFO	ORMATION								
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID AND SERIOUS EYE IRRITATION. MAY CAUSE DIZZINESS. Keep away from heat/sparks/open precautionary measures against static discharge thoroughly with soap and water after handling. W Immediately call a POISON CENTER or doctor/p continuously with water for several minutes. Rem	D VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR flame/hot surfaces – No Smoking. Keep container tightly closed. Take a. Avoid breathing fume/ mist/vapors/spray. Wash exposed skin areas Vear protective gloves/eye protection/face protection. IF SWALLOWED: ohysician. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse hove contact lenses if present and easy to do – continue rinsing. If skin attention. Store in a well-ventilated place. Keep cool. KEEP OUT OF								
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.									
16.3	Disclaimer:	government regulations must be reviewed for app the information contained herein is reliable and a is not guaranteed and no warranties of any type herein relates only to the specific product(s).	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other olicability to this product. To the best of ShipMate's & OPI's knowledge, accurate as of this date; however, accuracy, suitability or completeness, either expressed or implied, are provided. The information contained If this product(s) is combined with other materials, all component anged from time to time. Be sure to consult the latest edition.								
16.4	Prepared for:	OPI Products, Inc. 13034 Saticoy Street No. Hollywood, CA 91605 USA Tel: +1 (818) 759-2400 Fax: +1 (818) 759-5776 http://www.opi.com	O·P·I								
16.5	Prepared by:	ShipMate, Inc.           P.O. Box 787           Sisters, Oregon 97759-0787 USA           Tel: +1 (310) 370-3600           Fax: +1 (310) 370-5700           http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting								



Page 6 of 6 **SDS-046G** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 4.1

SDS Revision Date: 2/8/2016

### **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following: GENERAL INFORMATION:

### CAS No. Chemical Abstract Service Number

#### EXPOSURE LIMITS IN AIR:

ACGIH American Conference on Governmental Industrial Hygienists					
TLV Threshold Limit Value					
OSHA	U.S. Occupational Safety and Health Administration				
PEL	Permissible Exposure Limit				
IDLH	Immediately Dangerous to Life and Health				

#### FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

### PERSONAL PROTECTION RATINGS:

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в					н		(I)			
С			E 1		I		(I)			
D	B		t, I		J			<b>F</b>		
Е			$\bigcirc$		κ	1	(I)			
F	0		Ę		X	Consult for spec	your su ial hand	upervisor o dling direc	or SOPs tions.	
			6	3		F		nin		
	T		E	シ	_ `	لالي		1º		
Sa	fety Glas	ses	Splash (	Goggles		e Shield &		Glov	es	
					Protective Clothing		ina			
	Boots		Syntheti	c Apron		Full Suit		Dust Respirator		
								<b>a</b>		

### OTHER STANDARD ABBREVIATIONS:

<u>لم</u>

**Full Face Respirator** 

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

100

Full Face

Respirator

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Airline Hood/Mask

or SCBA

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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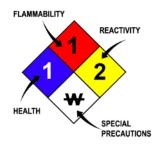
Dust & Vapor Half-

Mask Respirator

FLAMMABILITY LIMITS IN AIR:						
Autoignition Temperature source of ignition						
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					

HAZARD	RATINGS:

	A111055.
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
ох	Oxidizer
TREFOIL	Radioactive



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	Coefficient of Oil/Water Distribution

#### **REGULATORY INFORMATION:**

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compresse d	Flammabl e	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

#### EC (67/548/EEC) INFORMATION:

		×			<b>.</b>	×	×
с	Е	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammabl e	Harmful	Oxidizing	Toxic	Irritant	Harmful

#### CLP/GHS (1272/2008/EC) PICTOGRAMS:

			$\Diamond$					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment