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MATERIAL SAFETY DATA SHEET

Page 1 of 7 **MSDS-100**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 2.1 MSDS Revision Date: 02/08/2010 1. PRODUCT IDENTIFICATION Product Name: MANICURE BY OPI FINISHING BUTTER 1.2 Chemical Name: **AQUEOUS LOTION** 1.3 Synonyms: NA 1.4 Trade Names: MC132, MC137, MC138 1.5 Product Use: PROFESSIONAL OR SUNDRY USE ONLY 1.6 Manufacturer's Name: OPI PRODUCTS, INC. 1.7 Manufacturer's Address: 13034 SATICOY STREET, NO. HOLLYWOOD, CA 91605 USA **Emergency Phone:** CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 +1 (818) 759-2400 / +1 (800) 341-9999 2. HAZARD IDENTIFICATION Hazard Identification: This product is NOT classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). 2,2 Routes of Entry: Inhalation: Absorption: YES Ingestion: Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea. INGESTION: Slightly irritating to the eyes. May be irritating to skin in some sensitive individuals, especially after prolonged contact. SKIN & EYES: INHALATION: Inhalation is unlikely, however, vapors of this product may be slightly irritating to some sensitive individuals. Symptoms of overexposure may include redness, itching, and irritation. 2.5 Acute Health Effects: Redness, Itching, and irritation of skin at the site of contact for some sensitive individuals. 2.6 Chronic Health Effects: No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure following ingestion. Benzyl alcohol, isopropylparaben, isobutylparaben, benzophenone, benzoic acid, methylbutylparaben and butylparaben, contained in very small quantities in this product, may be mild allergens to some sensitive individuals. Target Organs: Eyes. NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used. NOTE: all WHMIS required Information Is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.

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3. COMPOSITION & INGREDIENTS

CAS NO. RTECS NO. RTECS NO. EINECS N										LIMITS	IN AIR	7.00		
CHEMICAL NAME(S) CAS NO. RTECS NO. RTECS NO. RTECS NO. RIPECS NO. RTECS								NOHSC			OSHA		OTHER	
AQUA (WATER) 7732-18-5 ZCO110000 231-791-2 \$6.00 NA NA NF NF NF NA NA NA NA CYCLOPENTASILOXANE \$41-02-6 GY59452000 208-764-9 \$10.0 NA NA NF NF NF NF NA NA NA NA CYCLOPENTASILOXANE \$466-77-3 NA 226-775-7 \$10.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-77-3 NA 246-705-9 \$5.0 NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-70-1 NA NA NA NA NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-7-1 NA NA NA NA NA NF NF NF NF NA NA NA NA CARRENTOXYCINNAMATE \$466-7-1 NA NA NA NA NF NF NF NF NA NA NA NA NA NF NF NF NF NA						PL		ES-		ES-		ppm		OINER
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ETHYLHEXYL METHOXYCINNAMATE 5466-77-3 NA 226-775-7 \$10.0 NA NA NA NA NA NA NA NA NA N		7732-18-5	ZC0110000	231-791-2	≤ 60.0	NA	NA	NF	NF	NF	NA	NA	NA	
METHOXYCINNAMATE 546-77-3 NA 224-75-7 510.0 NA NA NA NF NF NF NA NA NA NA	CYCLOPENTASILOXANE	541-02-6	GY59452000	208-764-9	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
SUCROSE STEARATE 25168-73-4 NA 244-705-9 55.0 NA		5466-77-3	NA	226-775-7	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICONE COPOLYMER	CAPRYLYL METHICONE	17955-88-3	NA	241-881-3	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-3 131-57-7 D11575000 205-031-5 ≤ 5.0 NA NA NF NF NF NA NA NA NA PEG-100 STEARATE 123-94-4 NA 204-644-4 ≤ 3.0 NA NA NF NF NF NF NA NA NA NA	SUCROSE STEARATE	25168-73-4	NA	246-705-9	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCERYL STEARATE 123-94-4 NA 204-644-4 ≤ 3.0 NA NA NF NF NF NA NA NA PEGG-100 STEARATE 9004-99-3 TQ5800000 NA	DIMETHICONE COPOLYMER	NA	NA	NA	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA	
PEG-100 STEARATE 9004-99-3 TQ5800000 NA \$\(\) \$2.0 NA NA NF NF NF NA NA NA NA ACRYLOYDHMETHY TAURATE COPOLYMER \$\(\) \$11286-86-3 NA NA NA \$\(\) \$	BENZOPHENONE-3	131-57-7	DJ1575000	205-031-5	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROXYETHYL ACRYLATE/SODIUM ACRYLATE/SODIUM ACRYLATE/SODIUM ACRYLOYDMETHYL TAURATE COPOLYMER \$\text{\$111-01-3}\$ \text{\$X86070000} \text{\$20-825-6} \leq 51.0 \text{\$NA} \text{\$NA} \text{\$NF} \text{\$NF} \text{\$NF} \text{\$NA} \text	GLYCERYL STEARATE	123-94-4	NA	204-664-4	≤ 3.0	NA	NA	NF	NF	NF	NA	NA	NA	
ACRYLATE/SODIUM ACRYLOYDIMETHYL TAURATE COPOLYMER SQUALANE 111-01-3 X86070000 203-825-6 \$1.0 NA NA NF NF NF NF NA NA NA NA	PEG-100 STEARATE	9004-99-3	TQ5800000	NA	≤ 2.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYSORBATE 60 9005-67-8 WG2934000 267-008-6 \$1.0 NA NA NF NF NF NA	ACRYLATE/SODIUM ACRYLOYDIMETHYL TAURATE	11286-86-3	NA	NA	≤ 2.0	NA	NA	NF	NF	NF	NA	NA	NA	
ISOPROPYLPARABEN	SQUALANE	111-01-3	XB6070000	203-825-6	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
SOBUTYLPARABEN 4247-02-3 NA 224-208-8 \$1.0 NA NA NF NF NA NA NA NA	POLYSORBATE 60	9005-67-8	WG2934000	267-008-6	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BUTYLPARABEN 94-26-8 DH1980000 202-318-7 ≤ 1.0 NA NA NF NF NF NA NA NA NA NA	ISOPROPYLPARABEN	4191-73-5	NA	224-069-3	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
PHENOXYETHANOL 122-99-6 KM0350000 204-589-7 ≤ 1.0 NA NA NF NF NA NA NA DEHYDROACETIC ACID 520-45-6 UP8050000 208-293-9 ≤ 1.0 NA NA NF NF NA NA NA SALICYCLIC ACID 69-72-7 VO0525000 200-712-3 ≤ 1.0 NA NA NF NF NA NA NA BENZOIC ACID 65-85-0 DG0875000 200-618-2 ≤ 1.0 NA NA NF NF NF NA NA NA BENZETHONIUM CHLORIDE 121-54-0 BO7175000 204-479-9 ≤ 1.0 NA NA NF NF NF NA NA NA BENZYL ALCOHOL 100-51-6 DN3150000 202-859-9 ≤ 1.0 NA NA NF NF NF NA NA NA POLYSILICONE-11 NA NA NA NA NF NF NF NA <	ISOBUTYLPARABEN	4247-02-3	NA	224-208-8	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
DEHYDROACETIC ACID 520-45-6 UP8050000 208-293-9 ≤ 1.0 NA NA NF NF NF NA NA NA NA NA	BUTYLPARABEN	94-26-8	DH1980000	202-318-7	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
SALICYCLIC ACID 69-72-7 VO0525000 200-712-3 ≤ 1.0 NA NA NF NF NF NA	PHENOXYETHANOL	122-99-6	KM0350000	204-589-7	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOIC ACID 65-85-0 DG0875000 200-618-2 ≤ 1.0 NA NA NF NF NF NA NA NA NA NA	DEHYDROACETIC ACID	520-45-6	UP8050000	208-293-9	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZETHONIUM CHLORIDE 121-54-0 BO7175000 204-479-9 ≤ 1.0 NA NA NF NF NF NA NA NA NA BENZYL ALCOHOL 100-51-6 DN3150000 202-859-9 ≤ 1.0 NA NA NF NF NF NF NA NA NA ALLERG POLYSILICONE-11 NA NA NA NA ≤ 1.0 NA NA NF NF NF NF NA NA NA NA ETHYLHEXYL HYDROSTEARATE 29383-26-4 NA 249-793-7 ≤ 1.0 NA NA NF NF NF NF NA NA NA NA XANTHAN GUM 11138-66-2 NA 234-394-2 ≤ 1.0 NA NA NF NF NF NF NA NA NA CI 15510 (ORANGE 4) 633-96-5 DB7084000 211-199-0 ≤ 1.0 NA NA NF NF NF NF NA NA NA NA FRAGRANCE (PARFUM) NA	SALICYCLIC ACID	69-72-7	VO0525000	200-712-3	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZYL ALCOHOL 100-51-6 DN3150000 202-859-9 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG POLYSILICONE-11 NA NA NA NA STATE 29383-26-4 NA 249-793-7 ≤ 1.0 NA NA NF NF NF NF NA NA NA NA STATE 29383-26-4 NA 249-793-7 ≤ 1.0 NA NA NF NF NF NF NA	BENZOIC ACID	65-85-0	DG0875000	200-618-2	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYSILICONE-11 NA NA NA NA S 1.0 NA NA NF NF NF NA NA NA NA NA S 1.0 NA NA NF NF NF NA NA NA NA NA S 1.0 NA NA NF NF NF NA	BENZETHONIUM CHLORIDE	121-54-0	BO7175000	204-479-9	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYLHEXYL HYDROSTEARATE 29383-26-4 NA 249-793-7 ≤ 1.0 NA NA NF NF NF NA	BENZYL ALCOHOL	100-51-6	DN3150000	202-859-9	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGE
XANTHAN GUM 11138-66-2 NA 234-394-2 ≤ 1.0 NA NA NF NF NF NA NA NA CI 15510 (ORANGE 4) 633-96-5 DB7084000 211-199-0 ≤ 1.0 NA NA NF NF NF NA NA NA FRAGRANCE (PARFUM) NA NA NA NA NA NA NF NF NF NA NA NA LINALOOL 78-70-6 RG5775000 201-134-4 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG LIMONENE 5989-27-5 GW6360000 227-813-5 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG	POLYSILICONE-11	NA	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15510 (ORANGE 4) 633-96-5 DB7084000 211-199-0 ≤ 1.0 NA NA NA NF NF NF NA NA NA NA	ETHYLHEXYL HYDROSTEARATE	29383-26-4	NA	249-793-7	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
FRAGRANCE (PARFUM) NA NA NA NA S 1.0 NA NA NA NA NA NA NA NA NA N	XANTHAN GUM	11138-66-2	NA	234-394-2	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
FRAGRANCE (PARFUM) NA NA NA Section 1.0 NA NA NF NF NF NA NA NA LINALOOL 78-70-6 RG5775000 201-134-4 ≤ 1.0 NA NF NF NF NA NA NA ALLERG LIMONENE 5989-27-5 GW6360000 227-813-5 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG	CI 15510 (ORANGE 4)	633-96-5	DB7084000			_	_	NF	NF	NF				
LINALOOL 78-70-6 RG5775000 201-134-4 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG LIMONENE 5989-27-5 GW6360000 227-813-5 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG		NA	NA	NA				NF	NF	NF				
LIMONENE 5989-27-5 GW6360000 227-813-5 ≤ 1.0 NA NA NF NF NF NA NA NA ALLERG	LINALOOL	78-70-6	RG5775000	201-134-4				NF	NF	NF			_	ALLERGE
	LIMONENE					_								ALLERGEN
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Prep	ared to OSHA,	ACC, ANSI, NOHSC, WHM	S & 2001/58 EC Standards	MSDS F	Revision: 2.	1 MSC	OS Revision Date: 02,	/08/2010
			4. FIRST AID A	MEASU	RES			
4.1	First Ald: INGESTION:	offer plenty of water or n	e vomiting. Drink plenty o nilk. Never give water or n ency number. Provide a	nilk to an	unconscio	us person. Co	ontact the nearest P	oison Control
	EYES:		s, flush with copious amou ugh irrigation. If problem po				st 15 minutes. Ope	n and close
	SKIN:	and soap. If irritation per	ner signs of irritation to the sists, consult a physician.	skin deve	elop, wash	affected skin	areas with plenty of	i warm water
	INHALATION:		ir at once.			100 To 10	III. TATE IS ELECT	
4.2	Medical Condition None known.	s Aggravated by Exposure:				HEALTH		0
	None Known,					FLAMMA	ABILITY	0
						REACTIV		0
						PROTEC	TIVE EQUIPME	NT
						EYES		
			5. FIREFIGHTING	3 MFA	SURFS			
5.1	Flashpoint & Metho > 200 °F	od:	5. Till 10 Till 10	- 1116/71	J J 1 1 1 1			
5.2	Autolgnition Tempe	erature:						
5.3	Flammability Limits		Lower Explosive Limit (LEI	-):	NA	Upper Explo	osive Limit (UEL):	NA
5.4	Fire & Explosion Ha			refox.				
		non-flammable.						
5.5	NA PARTITION NAME IN THE PARTITION NAME IN T	ixtingulshing Methods;						
5.6	Firefighting Proced	lures:					Y	
		6	. ACCIDENTAL REL	EASE N	MEASUR	ES		
6.1	For small spills doors and wir Dispose of proplenty of warn For spills ≥ 1 g product to contaminated	is (e.g., <1 gallon) wear ap adows). Remove spilled re operly in accordance with a water and soap. Remove allon, deny entry to all un ontainers for recovery of	luals involved in spill cleans propriate personal protect material with absorbent mon local, state and federal reany contaminated clothing protected individuals. Dike also also also also ask affected skin areas with	ive equip iterial and egulation ng and w e and cor g materia	ment (e.g., d place int s. Wash a ash thorou ntain spill w d to separ	, goggles, glov o appropriate Il affected are ghly before reu vith inert mater ate containers	ves). Maximize vent closed container(s) as and outside of c use. rial (e.g., sand or ea s for proper dispos	tilation (open for disposal. ontainer with with). Transfer al. Remove
		7 L	ANDLING & STORA	GE IN	FORM A	TION		
7.1	Work & Hyglene Pr	actices:	MINITED & SION	AOL III				
7.2	Avoid eye con Storage & Handling							
1.4	Use and store containers or	in a cool, dry, well-venti storage devices. Keep co	lated location (e.g., local intainers securely closed w			fans). Do not	store in damaged	or unmarked
7.3	Special Precaution Spilled materia		hazard if left unattended. C	Clean all s	pills promp	otly.		

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MATERIAL SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.1 MSDS Revision Date: 02/08/2010 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Ventilation & Engineering Controls: General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. 8.2 Respiratory Protection: None required if used in a well-ventilated area. Avoid eye contact. None required under normal conditions of use. 8.4 Hand Protection: None required under normal conditions of use. 8.5 Body Protection: None required under normal conditions of use. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Density: 0.95 - 1.009.2 Boiling Point: ND 9.3 Melting Point: ND 9.4 Evaporation Rate: ND 9.5 Vapor Pressure: ND 9.6 Molecular Weight: ND 9.7 Appearance & Color: Beige emulsion with mint-like odor. 9.8 Odor Thresholds 9.9 Solublity: Soluble in water. 9.10 6.0 - 6.79.11 Viscosity: ~ 200,000 cPs Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: This product is stable. Hazardous Decomposition Products: 10.2 Oxides of carbon and nitrogen. Hazardous Polymerization: 10.3 Will not occur. 10.4 Open flames, sparks, high heat and direct synlight. 10.5 Incompatible Substances: None known. 11. TOXICOLOGICAL INFORMATION 11.1 Toxicity Data: The product has not been tested for specific toxicity data. 11.2 Acute Toxicity: See section 2.5 Chronic Toxicity: 11.3 See section 2.6 11.4 Suspected Carcinogen: No. 11.5 Reproductive Toxicity: This product is not reported to produce reproductive toxicity 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 produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.1 MSDS Revision Date: 02/08/2010 11. TOXICOLOGICAL INFORMATION - continued 11.6 Irritancy of Product: See Section 2.3 11.7 Biological Exposure Indices: NE 11.8 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: There is no specific data available for this product. 12.2 Effects on Plants & Animals: There is no specific data available for this product. Effects on Aquatic Life: There is no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Dispose of in accordance with Federal, state and local regulations. 13.2 Special Considerations: NA 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): **NOT REGULATED** 14.2 IATA (AIR): **NOT REGULATED** 14.3 IMDG (OCN): **NOT REGULATED** TDGR (Canadian GND): 14.4 **NOT REGULATED** 14.5 ADR/RID (EU): **NOT REGULATED** 14.6 MEXICO (SCT): **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: NA 15.2 SARA Threshold Planning Quantity: NA TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempted from inventory status. 15.4 CERCLA Reportable Quantity (RQ): 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). 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. 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. State Regulatory Information: None of the Ingredients in this mixture are on any of the state criteria lists. 15.8 67/548/EEC (European Union) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC.

+1 (310) 370-3600 phone

+1 (310) 370-5700 fax http://www.shipmate.com/

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MSDS Revision Date: 02/08/2010

Prep	area to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/38 EC Standards MSDS Revision: 2.1 MSDS Revision Date: 02/08/2010	
	16. OTHER INFORMATION	
16.1	Other Information:	
	Use only as directed. Discontinue use immediately if irritation develops.	
16.2	Terms & Definitions:	
	Please see last page of this MSDS.	
16.3	Disclaimer:	
	This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Otl government regulations must be reviewed for applicability to this product. To the best of ShipMate's & OPI Products' knowledge, to information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are reguaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates of to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Do may be changed from time to time. Be sure to consult the latest edition.	the not only
16.4	Prepared for: OPI Products, Inc. 13034 Saticoy Street No. Hollywood, CA 91605 USA +1 (818) 759-2400 phone +1 (818) 759-5770 fax http://www.opi.com/	
16.5	Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, OR. 97759-0787 +1 (310) 370-3400 phone ShipMate ShipMate	

Dangerous Goods Training & Consulting

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. 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
ACGIR	American Conference on Governmental Industrial Hygierists
TLV	Threshold Limit Value
AHZO	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
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide
	oxygen to the body

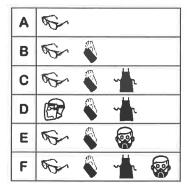
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

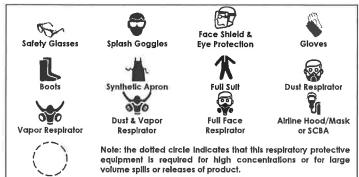
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

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

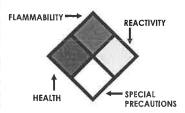
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autolgnition	Minimum temperature required to initiate combustion
Temperature	in air with no other 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:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W-	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	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
TDto	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TDio, LDio, & LDo or	Lowest dose (or concentration) to cause lethal or
TC, TCo, LClo, & LCo	toxic effects
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 Kow or log Koc	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		
D\$L	Canadian Domestic Substance List		
NDSL	Canadian Non-Domestic Substance List		
PSL	Canadian Priority Substances List		
TSCA	SCA U.S. Toxic Substance Control Act		
EU	European Union (European Union Directive 67/548/EEC)		

EC INFORMATION:

	W	et e	*		8		
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful