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SDS Revision Date: 2/8/2016

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.4 **1. PRODUCT & COMPANY IDENTIFICATION** 1.1 Product Name: **OPI NAIL ENVY – BUBBLE BATH** 12 Chemical Name: Solvent Mixture 1.3 Synonyms: P/N NT222 1.4 Trade Names: OPI Nail Envy – Bubble Bath 1.5 Product Use: Cosmetic Use Only OPI Products, Inc. 1.6 Distributor's Name: 1.7 Distributor's Address:

 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

Hazard Identification:	This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC and ADG Code (Australia).
	WARNING! FLAMMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IF SWALLOWED.
	MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.
	Classification: Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2B; Eye Irrit. 2B
	Hazard Statements (H): H226 – Flammable liquid and vapor. H302 – May be harmful if swallowed. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation.
	Precautionary Statements (P): P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 - Keep container tightly closed. P243 - Take precautionary measures against
	static discharge. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	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). 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

								EXPO	SURE L	IMITS IN	I AIR (m	g/m³)	-
					ACGIH			NOHSC			OSHA		
					ppm			ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
	141-78-6	AH5425000	205-500-4	15-40	400	400	400	200	NF	NA	NA	2000	400 TWA
ETHYL ACETATE	Flam. Liq. 2;	Acute Tox. 5; Eye	e Irrit. 2A; STOT	SE 3; H225	, H319	H333,	H336						
	123-86-4	AF73500000	204-658-1	15-40	150	200	150	200	NF	200	200	1700	150 TWA
BUTYL ACETATE	Flam. Liq. 3; H333, H336,	Acute Tox. 5; Ski H412	n Irrit. 2; Eye Irri	t. 2A, STOT	-SE 3;	Acute A	.q. 3; Cł	nron. Ad	q. 3; H2	26, H3	15, H31	9,	
NITROCELLULOSE	9004-70-0	AH5425000	NA	10-30	400	400	400	200	NF	NA	NA	2000	
NITROUELLULU3E	Flam. Liq. 2; I	1225											
PROPYL ACETATE	109-60-4	AJ3675000	203-686-1	7.0-13	200	250	835	1040	NF	200	840	1700	
FRUFILAGEIAIE	Flam. Liq. 2, I	Eye Irrit. 2, STOT	SE 3; H225, H3	19, H336									
TOSYLAMIDE/FORMALDEHYDE	25035-71-6	QW0970000	NA	7.0-13	(10)	NA	NF	NF	NF	(10)	NA	NA	
RESIN													
	67-63-0	NT8050000	200-661-7	3.0-7.0	400	500	400	500	NF	400	500	2000	400 TWA
ISOPROPYL ALCOHOL	Flam Lig 2.5	Skin Irrit. 3; Eye Ir	rit 2A. STOT SI		316 H	319					1		
TRIMETHYL PENTANYL	6846-50-0	SA142000	229-937-9	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA	
DIISOBUTYRATE													
	115-86-6	TC840000	204-112-2	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA	
TRIPHENYL PHOSPHATE	Aquatic Acute	1; Aquatic Chror	nic 1: H400. H41	0									•
	1077-56-1	NA	214-073-3	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYL TOSYLAMIDE		•								•			
	76-22-2	EX1225000	200-945-0	1.0-5.0	2	4	2	12	NF	NA	NA	200	
CAMPHOR	Flam. Sol. 2,	Acute Tox. 4, STO	OT SE 2; H228,	H332, H371									•
	71011-24-0	NA	NA	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	15	DUST
STEARALKONIUM BENTONITE													
	123-42-2	SA9100000	NA	0.1-1.0	50	240	238	NF	NF	20	240	1800	
DIACETONE ALCOHOL	Eye Irrit. 2; H	319	•	•	•				-			•	•
	13463-67-7	XR2275000	236-675-5	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77891 (TITANIUM DIOXIDE)													
	12691-60-0	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
STEARALKONIUM HECTORITE							1	1	1				
	131-56-6	DJ0700000	205-029-4	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-1		e Irrit. 2; STOT S											1



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								EXPO	SURE L	IMITS IN	I AIR (m	g/m³)	
					ACGIH		NOHSC				OSHA		
					р	pm		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
CITRIC ACID	77-92-9	GE7350000	201-069-1	0.0-0.1	NA	NA	NF	NF		NA	NA	NA	
HYDROLYZED WHEAT PROTEIN	70084-87-6	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77491 (IRON OXIDES)	1309-37-1	NO7400000	215-168-2	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICONE	9006-65-9	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77499 (IRON OXIDE)	1317-61-9	NA	215-277-5	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CALCIUM PANTOTHENATE	137-08-6	RU4375000	205-278-9	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (YELLOW 5)	1934-21-0	UQ6400000	217-699-5	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15850 (RED 6)	5858-81-1	QJ1975000	227-497-9	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
		4.	FIRST A		SUR	RES							
4.1 First Aid:	Ingestion:	4. FIRST AID MEASURES If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or mill IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.											
	<u>Eyes</u> :	ves: Splashes are not likely; however, if product gets in the eyes, flush water for at least 15 minutes. If irritation occurs, contact a physician.											
	<u>Skin</u> :		e affected are										ed by a thoroug rsists, contact
	Inhalation:	Remove victin	,	t once.									
4.2 Effects of Exposure:	Ingestion:	If product is	swallowed. m	nav cause	naus	ea. vo	mitina	and/c	or diar	rhea	and co	entral	nervous svste

4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, vomiti depression.	ng and/or diarrhea and central nervo	us system							
		Eves: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and w									
		Skin: May be irritating to skin in some sensitive individuals, es	specially after prolonged and/or repeated	l contact.							
Inhalation: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the re system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ir Information) can cause central nervous system depression (e.g., drowsiness, dizziness, hea nausea).											
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. Irritation of the nose and throat, skin irritation, signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination and/or fatigue)									
4.4	Acute Health Effects:	Mild to moderate irritation to eyes and skin near affected areas. Ad drowsiness, dizziness, headaches and nausea.	ditionally, high concentrations of vapors	can cause							
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	HEALTH	1							
	Aggravated by Exposure.	target organs (eyes, skin, and respiratory system).	FLAMMABILITY	3							
			PHYSICAL HAZARDS	0							
			PROTECTIVE EQUIPMENT	В							
				D							



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		5. FIRE	FIGH	TING	i MEA	SURE	S					
5.1	Fire & Explosion Hazards:											
5.2	Extinguishing Methods:	Water Fog, CO ₂ , Halon (if per Identification Number: 33	mitted),	Dry Ch	emical,	Foam <u>H</u>	lazChem	Code:	3[Y] E	Hazaro		
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.										
		6. ACCIDEN	TAL	RELE	EASE	MEAS		5				
6.1	Spills:	Before cleaning any spill or le							ear apr	propriate	Personal Protective	
		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) and secure all sources of ignition. Remove spilled material with absorbent material and place into 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). Use ONLY non-sparking tools for recovery and cleanup. 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. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.										
		7. HANDLING	& S		GEI	VFOR	ΜΔΤΙΟ)N				
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the local exhaust ventilation, fans). smoke while handling product.	produc	t. Avoid	breathi	ng vapors	of this p	roduct.				
7.2	Storage & Handling:	Keep this material away from he closed tightly when not in use containers should be handled w sources, or sources of intense he	. Emp ith care	ty conta . Store	iner ma containe	y contain ers in a c	n residual ool, dry lo	amour	nts of th away fi	nis proc rom dire	luct; therefore, empty	
7.3	Special Precautions:	Open containers slowly on a st contain residual amounts of this	able su	rface. I	Кеер со	ntainer tig	htly close	ed whe	n not in	use. E	Empty containers may	
		8. EXPOSURE CON		5 & 1	PERS	ΟΝΔΙ	PRO	TECT				
8.1	Exposure Limits:		-	GIH		NOHSC			OSHA		OTHER	
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH		
		ETHYL ACETATE	400	400	400	200	NF	NA	NA	2000	400 TWA	
		BUTYL ACETATE	150	200	150	200	NF	200	200	1700	150 TWA	
		NITROCELLULOSE	400	400	400	200	NF	NA	NA	2000		
		PROPYL ACETATE	200	250	835	1040	NF	200	840	1700		
		TOSYLAMIDE/FORMALDEHYDE RESIN	(10)	NA	NF	NF	NF	(10)	NA	NA		
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA	
			2	4	2	12	NF	NA	NA	200	DUCT	
		STEARALKONIUM BENTONITE	NA	NA	NF	NF NF	NF	NA	NA	15	DUST	
8.2	Ventilation & Engineering Controls:					dequate v				1800 aust ver	l tilation, fans). Ensure	
8.3	Respiratory Protection:	No special respiratory protection necessary, use only respiratory §1910.134, or applicable U.S.	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. 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.									



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	8. EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd									
8.4	Eye Protection:	Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166.	8							
8.5	Hand Protection:	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.								
8.6	Body Protection:	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.								

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Viscous Liquid
9.2	Odor:	Ester (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:	77 – 130 °C (171 - 266 °F)
9.7	Flashpoint:	- 4 °C (24 °F), TCC
9.8	Upper/Lower Flammability Limits:	LEL: 1.0%; UEL: 13.0%
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	0.9998-1.0008
9.12	Solubility:	Insoluble
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

10. STABILITY & REACTIVITY

		10. STABILITY & REACTIVITY								
10.1	Stability:	Stable under ambient conditions when stored properly (See Section 7, Storage and Handling)								
10.2	Hazardous Decomposition Products:	f exposed to extremely high temperatures, the products of thermal decomposition may include irritation vapors and carbon oxide gases (e.g. CO, CO ₂).								
10.3	Hazardous Polymerization:	May occur if exposed to extremely high temperatures.								
10.4	Conditions to Avoid:	High temperatures and incompatible substances.								
10.5	Incompatible Substances:	Strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide).								
		11. TOXICOLOGICAL INFORMATION								
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES								
11.2	Toxicity Data:	This product has not been tested on animals to obtain toxicology data. There is toxicology data for some components of the product, which are found in scientific literature. This data is presented below: <u>Ethyl Acetate</u> : LD_{50} (oral, rat) = 11,300 mg/kg; <u>Butyl Acetate</u> : LD_{50} (oral, rat) = 11,400 mg/kg; <u>Isopropyl Alcohol</u> : LD_{50} (oral, rat) = 5,840 mg/kg								
11.3	Acute Toxicity:	See Section 4.4								
11.4	Chronic Toxicity:	See Section 4.5								
11.5	Suspected Carcinogen:	This product contains <u>Isopropyl Alcohol</u> , which is not carcinogenic to humans, but is listed as Group 3 carcinogen by IARC. <u>Titanium Dioxide</u> : IARC Group 2B (possible human carcinogen); ACGIH A4 (not classified as a human carcinogen).								
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.								
	Mutagenicity:	This product is not reported to cause mutagenic effects in humans.								
	Embryotoxicity:	This product is not reported to cause embryotoxic effects in humans.								
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.								
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.								
11.7	Irritancy of Product:	See Section 4.3								
11.8	Biological Exposure Indices:	NA								
11.9	Physician Recommendations:	Treat symptomatically.								



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SAFETY DATA SHEET

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		15. REGULATORY INFORMATION – cont'd
15.7	State Regulatory Information:	Butyl Acetate is found on the following state criteria lists: California Hazardous Substances List (CA), Delaware Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). <u>Ethyl Acetate</u> is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, WA, and Wisconsin Hazardous Substances List (WI). <u>Nitrocellulose</u> is found on the following state criteria lists: FL, MA, and PA. <u>Isopropyl Alcohol</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. <u>Camphor</u> is found on the following state criteria lists: FL, MA, MN, 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), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Isopropyl Alcohol</u> : Flammable, Irritant (F, Xi); <u>Butyl Acetate</u> : Flammable. (F); <u>Ethyl Acetate</u> : Flammable, Irritant (F, Xi). <u>Risk Phrases</u> (R) – R11-36-66-67 – Highly flammable. Harmful if swallowed. Irritating to eyes. Vapors may cause drowsiness and dizziness. Repeated exposure may cause skin dryness and cracking. <u>Safety Phrases</u> (S): S1/2-7/9-16-20/21-24/25-26-28-33-46 - Keep locked up and out of the reach of children. Keep container tightly closed and in a well- ventilated place. Keep away from sources of ignition. When using, do not eat, drink or smoke. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with plenty of soap and warm water. Take precautionary measures against static discharges. If swallowed, seek medical advice immediately and show this container or label.
		16. OTHER INFORMATION
16.1	Other Information:	WARNING! FLAMMMABLE LIQUID AND VAPOUR. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs - Get medical advice/attention. For specific first aid treatment (See Section 4 of this Safety Data Sheet). Store in a well-ventilated place. Keep cool. KEEP OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & OPI's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed 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
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



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

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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		
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D			J) 🚯 🕄
Е			κ) 🚯 🔇
F	0		X	Consult your for special ha	supervisor or SOPs andling directions.
	-	_			
			(CTV.	WWW
			Face	e Shield &	
58	fety Glasses	Splash Goggles	Protect	tive Eyewear	Gloves
			Я		
	Boots	Synthetic Apron		tive Clothing Full Suit	Dust Respirator
			(Î
Full I	Face Respirator	Dust & Vapor Half-	Fu	III Face	Airline Hood/Mask

Full Face Respirator Dust & Vapor Half-Mask Respirator

OTHER STANDARD ABBREVIATIONS:

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

Respirator

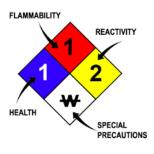
or SCBA

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

ELAMMABILITY LIMITS IN AIR: Autoignition Temperature Minimum temperature required to initiate combustion 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
TREFOIL	Radioactive



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
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & LC _o	
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 _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

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	WHMIS	Canadian Workplace Hazardous Material Information System
EPA U.S. Environmental Protection Agency DSL Canadian Domestic Substance List NDSL Canadian Non-Domestic Substance List	DOT	U.S. Department of Transportation
DSL Canadian Domestic Substance List NDSL Canadian Non-Domestic Substance List	TC	Transport Canada
NDSL Canadian Non-Domestic Substance List	EPA	U.S. Environmental Protection Agency
	DSL	Canadian Domestic Substance List
DCI Considient Driestity Cylhotoneses Liet	NDSL	Canadian Non-Domestic Substance List
PSL Canadian Phonty Substances List	PSL	Canadian Priority Substances List
TSCA U.S. Toxic Substance Control Act	TSCA	U.S. Toxic Substance Control Act
EU European Union (European Union Directive 67/548/EEC)	EU	European Union (European Union Directive 67/548/EEC)
WGK Wassergefährdungsklassen (German Water Hazard Class)	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
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

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Corrosive	Explosive	Flammable	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