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OTHER

SAFETY DATA SHEET Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 10/6/2016 1. PRODUCT & COMPANY IDENTIFICATION Product Name: **OPI INFINITE SHINE ProStay GLOSS** Chemical Name Solvent Mixture Synonyms **OPI Infinite Shine ProStay Gloss - Top Coat** Trade Names IS T31 Product Use: Cosmetic Use Only Distributor's Name: **OPI Products, Inc.** Distributor's Address: 13034 Saticoy Street, No. Hollywood, CA 91605 USA Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377) 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: 1008 (2004) and ADG Code (Australia). DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. Classification: Flam. Liq. 2; Skin Sens. 1A; Eye Irrit. 2B Hazard Statements (H): H225 - Highly flammable liquid and vapor. H317 - May cause an allergic skin reaction. H320 - Causes eye irritation. 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 fume/gas/mist/vapours/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. P280 - Wear protective gloves/protective clothing/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, CO2, 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/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ESтιν STEI PFI STEL IDI H CHEMICAL NAME(S) RTECS No. EINECS No CAS No. % TWA STEL PEAK NA 2000 400 TWA 141-78-6 AH5425000 205-500-4 30-60 400 400 200 400 NF NA ETHYL ACETATE Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 123-86-4 AF7350000 204-658-1 10-30 150 200 150 200 NF 200 200 1700 100 NIOSH BUTYL ACETATE Flam. Liq. 3; STOT SE 3; H226, H336 10-30 9004-36-8 NA NA NA NA NF NF NF NA NA NA CELLULOSE ACETATE BUTYRATE NT8050000 67-63-0 200-661-7 5.0-20 400 500 400 500 NF 400 500 2000 400 TWA **ISOPROPYL ALCOHOL** Flam. Liq. 2; Skin Irrit. 3; Eye Irrit. 2A; STOT SE 3; H225, H316, H319 NF NF NF NA NA NA 77-90-7 NA 201-067-0 1.0-5.0 NA NA ACETYL TRIBUTYL CITRATE Flam. Gas 1; Muta. 1B; Carc. 1B; H220, H340, H350 NA NA NF NF NF NA NA NA HEA/IPDI ISOCYANURATE NA NA NA 1.0-5.0 TRIMER/PG CROSSPOLYMER HYDROXYETHYL NA NA NA 1.0-5.0 NA NA NF NF NF NA NA NA ACRYLATE/IPDI/PPG-15 GLYCERYL ETHER COPOLYMER ETHYTL TRIMETHYLBENZOYL NA 84434-11-7 282-810-6 0.1-1 NA NA NF NF NF NA NA NA PHENYL PHOSPHINATE DI-HEMA TRIMETHYLHEXYL 72869-86-4 NA 276-957-5 0.1-1.0 NA NA NF NF NF NA NA NA DICARBAMATE Skin Sens.1; H317 NA NA NF NF NF NA NA NA ISOSORBIDE 1215036-04-6 NA NA 0.1-1.0 DICAPRYLATE/CAPRATE TRIMETHYLPENTANEDIYL 68052-23-3 NA 268-316-3 0.0-0.1 NA NA NF NF NF NA NA NA DIBENZOATE 81-48-1 CB7700000 201-353-5 0.0-0.1 NA NA NF NF NF NA NA NA CI 60725 (VIOLET 2)



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		4. FIRST AID MEASURES					
4.1	First Aid:	Ingestion: If ingested, do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer plenty of 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 and amount of the substance that was swallowed.					
		Eves: If product is in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. If problem persists, consult a physician.					
		Skin: If redness, dryness or other signs of irritation to the skin develop, wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician.					
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					
		depression. Eves: Irritating to eyes. Symptoms of overexposure may include redness, itching, irritation and watering. Skin: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. Inhalation: 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 and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, 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.					
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:	No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure.					
4.6	Target Organs:	Eyes, Skin, Respiratory System.					
4.7	Medical Conditions Aggravated by Exposure:	None known. HEALTH 1 FLAMMABILITY 3 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN					
5.1	Fire & Explosion Hazards:	5. FIREFIGHTING MEASURES DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes,					
5.1	The & Explosion flazards.	sparks & open flame. Keep container closed.					
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized.					
5.3	Firefighting Procedures:						
		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 small spills (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 large spills (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 and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 					
7.4	Work O Device Device	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					



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8.1	Exposure Limits:	8. EXPOSURE CO			- PEK			UTEC			OTHER
	ppm (mg/m ³)		AC	gih 	ES-	NOHSC ES-	ES-		OSHA		OTHER
		CHEMICAL NAME(S)	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	100 7144
		ETHYL ACETATE BUTYL ACETATE	400	400 200	200	400 200	NF NF	NA	NA 200	2000	400 TWA
		ISOPROPYL ALCOHOL	150 400	500	150 400	200 500	NF	200 400	500	1700 2000	150 TWA 400 TWA
2	Ventilation & Engineering	When working with large c									
	Controls:	Ensure that an eyewash stat									
.3	Respiratory Protection:	No special respiratory prote									:
	recopilatory recontenti	necessary, use only respira									
		§1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.									
.4	Eye Protection:										
	Lyc r rototion.	U.S. OSHA 29 CFR §1910.1								y, telet to	
.5	Hand Protection:										
	Hand Flotection.	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.									
.6	Body Protection:								and han	dlina. If	:
.0	body i rotection.	No special body protection									
		necessary, refer to appropria	ile standa		anaua, tr	e E.C. m	empers	states, or	0.5.05	ΠA.	
		9. PHYSIC	AL & (CHEN	IICAL	PROF	PERT	IES			
.1	Appearance:	Viscous liquid, various colors	6								
.2	Odor:	Ester (fruity) odor									
.3	Odor Threshold:	ND									
.4	pH:	NA									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling	NA									
	Range:										
.7	Flashpoint:	- 4 °C (24.8 °F) estimated									
.8	Upper/Lower Flammability Limits:	NA									
.9	Vapor Pressure:	NA									
.10	Vapor Density:	ND									
.11	Relative Density:	ND									
0.12	Solubility:	Insoluble									
.12	Partition Coefficient (log Pow):	ND									
).14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	ND									
9.16	Viscosity:	> 1,200 cPs									
	Other Information:	+ '									
17		NA									
).17											
9.17							ти				
).17		10. S	TABI		& REA	CTIVI	IT				
	Stability:							ee Sectio	on 7, Sto	rage and	Handling).
0.1	I	This product is stable under	ambient o	condition	s when s	ored prop	perly (S				
0.17	Stability:	This product is stable under If exposed to extremely hig	ambient o	condition atures, 1	s when s	ored prop	perly (S				
0.1 0.2	Stability: Hazardous Decomposition	This product is stable under If exposed to extremely hig carbon oxide gasses (e.g., C	ambient (h temper O, CO ₂)	condition atures, 1	s when s he produ	ored prop	perly (S				
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0.1 0.2 0.3	Stability: Hazardous Decomposition Products: Hazardous Polymerization:	This product is stable under If exposed to extremely hig carbon oxide gasses (e.g., C	ambient (h temper (O, CO ₂) remely hi eat and (condition ratures, t gh tempe direct su	s when s the produ eratures. nlight. Th	cts of the	perly (Sermal d	ecompos	sition ma	y include	irritating vapors
0.1 0.2 0.3 0.4	Stability: Hazardous Decomposition Products: Hazardous Polymerization:	This product is stable under If exposed to extremely hig carbon oxide gasses (e.g., C May occur, if exposed to extr Open flames, sparks, high h	ambient (h temper (O, CO ₂) remely hi eat and (condition ratures, t gh tempe direct su	s when s the produ eratures. nlight. Th	cts of the	perly (Sermal d	ecompos	sition ma	y include	irritating vapors
0.1 0.2 0.3 0.4	Stability: Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid:	This product is stable under If exposed to extremely hig carbon oxide gasses (e.g., C May occur, if exposed to extr Open flames, sparks, high h superoxides), strong acids (e	ambient (h temper (O, CO ₂) remely hi eat and (condition ratures, t gh tempe direct su	s when s the produ eratures. nlight. Th	cts of the	perly (Sermal d	ecompos	sition ma	y include	irritating vapors
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12.1	Environmental Stability:	12. ECOLOGICAL INFORMATION The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows:
12.1	Environmental Stability:	environmental data available for the components of this product are as follows:
		 <u>Ethyl Acetate</u>: Koc = 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, an biodegradation. This compound's half-life in water is 6.1 hours. <u>Butyl Acetate</u>: Koc = 1.82. Water solubility: 120 parts H₂O at 25°C (77°F). Bioconcentration Factor = 4-1 Bioconcentration is not anticipated to be significant. This compound's half-life in water is 6.1 hours. <u>Butyl Acetate</u>: Koc = 1.82. Water solubility: 120 parts H₂O at 25°C (77°F). Bioconcentration Factor = 4-1 Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environment from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. <u>Isopropyl Alcohol</u>: Log Kow = 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 has a standard comparison of the standard comp
12.2	Effects on Plants & Animals:	life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate. There are no specific data available for this product.
12.2	Effects on Aquatic Life:	There are no specific data available for this product; however, very large release of this product may be harmful or fat to overexposed aquatic life.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Dispose of in accordance with federal, state and local regulations.
13.2	Special Considerations:	U.S. EPA WASTE NUMBER: D001 (characteristic - ignitable)
		14. TRANSPORTATION INFORMATION
		ber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Addition e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L)
14.2	IATA (AIR):	CONSUMER COMMODITY, ORM-D – until 01/01/2021 UN1263, PAINT RELATED MATERIAL, 3, II LTD QTY (0.5L < IP VOL ≤ 1.0 L)
		CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L)
14.3	IMDG (OCN):	UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL \leq 1.0 L) EXCEPTED QUANTIY (IP VOL \leq 30 ml)
14.4	TDGR (Canadian GND):	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)
14.5	ADR/RID (EU):	UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L)
14.6	SCT (MEXICO):	UN1263, PRODUCTOS PARA PINTURA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)
14.7	ADGR (AUS):	UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (IP VOL ≤ 1.0 L)
* This	product may also be shipped	d as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains <u>Isopropanol</u> , a substance subject to SARA Title III, Section 313 reporting requirements. The product contains <u>Ethyl Acetate</u> , a substance that is subject to SARA Title III, Section 304 reporting.
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity (RQ):	Ethyl Acetate: 2,270 kg (5,000 lbs); Butyl Acetate: 2,270 kg (5,000 lbs)
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter (Cosmetics).
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the Safety Data 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), Delawa Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know L (NJ), New York List of Hazardous Substances (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissil Exposures List for Air Contaminants (WA), Wisconsin Hazardous Substances List (WI). <u>Ethyl Acetate</u> is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA. <u>Isopropanol</u> is found on the following state criteria lists: CA, MA, MN, NJ, PA, and WA. <u>Isopropanol</u> 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 Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MI), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylva Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).

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

SDS Revision: 1.0

SDS Revision Date: 10/6/2016

		16. OTHER INF	ORMATION					
16.1	6.1 Other Information: DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. Keep away from heat/sparks/open flame/hot surfaces – No Smoking. Keep container tightly closed. Take precautionary measures against static discharge. Avoid breathing fume/gas/mist/vapors/spray. Wash exposed skin areas thoroughly with soap and water after handling. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with soap and water. 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. 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	$\mathbf{O} \cdot \mathbf{P} \cdot \mathbf{I}$					
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 Dungerous Goods Training & Consulting					



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SDS Revision: 1.0

SDS Revision Date: 10/6/2016

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	TLV Threshold Limit Value			
OSHA	OSHA U.S. Occupational Safety and Health Administration			
PEL	PEL Permissible Exposure Limit			
IDLH	Immediately Dangerous to Life and Health			

FIRST AID MEASURES:

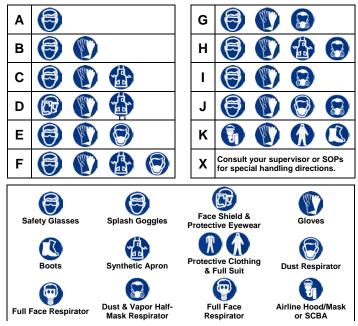
CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

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:



OTHER STANDARD ABBREVIATIONS:

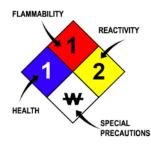
NA	Not Available	
NR	No Results	
NE	Not Established	
ND	Not Determined	
ML	ML Maximum Limit	
SCBA	Self-Contained Breathing Apparatus	
Flam.	Flammable	
Liq.	Liquid	
Sol.	Solid	
Tox.	Toxicity	
Irrit.	Irritation	
Sens.	Senitization	
Ox.	Oxidizing	
Corr.	Corrosion	
Repr.	Reproductive (Harm)	
Asp.	Aspiration	
Inh.	Inhalation	
Dam.	Damage	
STOT SE	Specific Target Organ Toxicity – Single Exposure	
STOT RE	Specific Target Organ Toxicity – Repeated Exposure	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Minimum temperature required to initiate combustion in air with no other sou 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, 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
₩	Use No Water
ох	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD 50	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LD 30	S
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	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:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	DOT U.S. Department of Transportation			
TC	TC Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	DSL Canadian Domestic Substance List			
NDSL	NDSL Canadian Non-Domestic Substance List			
PSL	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
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		N	*	8	® X	×	×
С	E	F	Ν	0 Т		Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\diamondsuit					×
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment