

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

MSDS Revision: 2.0

MSDS Revision Date: 04/28/2010

1. PRODUCT IDENTIFICATION

1.1	Product Name: OPI NATURAL NAIL BASE COAT
1.2	Chemical Name: Solvent Mixture
1.3	Synonyms: NA
1.4	Trade Names: NTT10 NTT14
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) 424-3887
1.9	Business Phone: +1 (818) 759-2400 / +1 (800)-341-9999

2. HAZARD 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). Flammable liquid.						
2.2	Routes of Entry:	Inhalation: YES	NO	Absorption:	YES	Ingestion:	YES
2.3	Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. EYES: 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).						
2.4	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.						
2.5	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.						
2.6	Chronic Health Effects: None Known.						
2.7	Target Organs: Eyes, skin and respiratory system.						

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)								
					ACGIH		NOHSC			OSHA			OTHER
					TLV	STEL	ppm		ES-TWA	ES-STEL	ES-PEAK	PEL	
ETHYL ACETATE	141-78-6	AH5425000	201-550-6	≤ 30.0	400	400	200	400	NF	NA	NA	2000	400 TWA
ALCOHOL DENATURED (SD ALCOHOL-40B)	64-17-5	KQ300000	200-578-6	≤ 30.0	1900	NA	1880	NF	NF	1000	NA	NA	
BUTYL ACETATE	123-86-4	AF7350000	204-658-1	≤ 25.0	150	200	150	200	NF	200	200	1700	150 TWA

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 & INGREDIENT INFORMATION - continued

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)								
					ACGIH		NOHSC			OSHA			OTHER
					ppm		ppm			ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
HEPTANE	142-82-5	MI7700000	205-563-8	≤ 10.00	400	NA	1640	2050	NF	500	NA	NA	
NITROCELLULOSE	9004-70-0	FJ6000000	NA	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
TOSYLAMIDE EPOXY RESIN	130353-62-7	NA	NA	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA	
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	≤ 5.0	400	500	983	1230	NF	400	500	2000	400TWA
TRIMETHYL PENTANYL DIISOBUTYRATE	6846-50-0	SA142000	229-937-9	≤ 3.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYVINYL BUTYRAL	63148-65-2	TR49550000	NA	≤ 3.0	NA	NA	NF	NF	NF	NA	NA	NA	
CAMPHOR	76-22-2	EX1225000	NA	≤ 2.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-1	131-56-6	DJ0700000	205-029-4	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICONE	6009-65-9	NA	63148-62-9	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 17200	3567-66-6	QJ197000	222-656-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 60725	81-48-1	CB7700000	201-353-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	

4. FIRST AID MEASURES

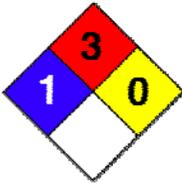
4.1	<p>First Aid:</p> <p>INGESTION: If ingested, do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer plenty of water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time and amount of the substance that was swallowed.</p> <p>EYES: 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.</p> <p>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.</p> <p>INHALATION: Remove victim to fresh air at once.</p>										
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>None known.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #FFFF00;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td style="text-align: center;">A</td> </tr> <tr> <td>EYES</td> <td></td> </tr> </table>	HEALTH	1	FLAMMABILITY	3	REACTIVITY	0	PROTECTIVE EQUIPMENT	A	EYES	
HEALTH	1										
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5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: - 1 °C (30 °F) estimated.				
5.2	Autoignition Temperature: NA				
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	NE	Upper Explosive Limit (UEL):	NE
5.4	Fire & Explosion Hazards: WARNING: Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.				
5.5	Extinguishing Methods: CO₂, Halon, Dry Chemical, Foam				
5.6	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. 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) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). 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 spills ≥ 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer product 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.
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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.

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: 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.
8.2	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.
8.3	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.
8.4	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.
8.5	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	Density:	0.9980 TO 1.0008
9.2	Boiling Point:	NA
9.3	Melting Point:	NE
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NE
9.7	Appearance & Color:	Viscous liquid
9.8	Odor Threshold:	ND
9.9	Solubility:	Insoluble
9.10	pH	NA
9.11	Viscosity:	>1200
9.12	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability: This product is stable under ambient conditions when stored properly (see Section 7, Storage and Handling).
10.2	Hazardous Decomposition Products: If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gasses (e.g., CO, CO₂)
10.3	Hazardous Polymerization: May occur, if exposed to extremely high temperatures.
10.4	Conditions to Avoid: Open flames, sparks, high heat and direct sunlight. This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), strong bases (e.g., lye, potassium hydroxide).
10.5	Incompatible Substances: None known.

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11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.
11.2	Acute Toxicity: See Section 2.5
11.3	Chronic Toxicity: See Section 2.6
11.4	Suspected Carcinogen: This product contains Isopropyl Alcohol, which is not carcinogenic to humans, but is listed as Group 3 carcinogens by the IARC.
11.5	Reproductive Toxicity: This product is not reported to cause 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 cause teratogenic effects in humans.
	Reproductive Toxicity: This product is not reported to cause reproductive effects in humans.
11.6	Irritancy of Product: See Section 2.3
11.7	Biological Exposure Indices: NE
11.8	Physician Recommendations: Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: 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: Ethyl Acetate: K_{oc} = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not 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. Butyl Acetate: K_{oc} = 1.82. Water solubility: 120 parts H₂O at 25°C (77°F). Bioconcentration Factor = 4-14. Bioconcentration is not 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_{ow} = 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 half-life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.
12.2	Effects on Plants & Animals: There is no specific data available for this product.
12.3	Effects on Aquatic Life: There is no specific data available for this product; however, very large release of this product may be harmful or fatal 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)

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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.

14.1	49 CFR (GND): EXCEPTED QUANTITY (49 CFR §173.4a) (≤ 30 ml) CONSUMER COMMODITY, ORM-D (≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)	   
14.2	IATA (AIR): EXCEPTED QUANTITY (AIR SHIPPER § 4.1.2) (≤ 30 ml) CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 0.5 L)	
14.3	IMDG (OCN): EXCEPTED QUANTITY (2008 IMO § 3.5.1) (≤ 30 ml) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)	
14.4	TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)	
14.5	ADR/RID (EU): UN1263, PAINT RELATED MATERIAL, 3, II, ADR	
14.6	MEXICO (SCT): UN1263, PRODUCTOS PARA PINTURA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)	
14.7	ADGR (Australia): UN1263, PAINT RELATED MATERIAL, 3, II, ADR	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: SARA 304 (40 CFR Table 302.4) – Butyl Acetate, Ethyl Acetate, Isopropyl Alcohol	
15.2	SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for the components of this product.	
15.3	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): Butyl Acetate: 5000 lbs.; Ethyl Acetate: 5000 lbs.;	
15.5	Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).	
15.6	Other Canadian Regulations: 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. Class B2 Flammable Liquid.	 

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15. REGULATORY INFORMATION - continued

15.7	<p>State Regulatory Information: Ingredients in this mixture on found on the following state criteria lists:</p> <table border="0"> <tr> <td> <p>California OSHA Hazardous Substances List Delaware Air Quality Management List Massachusetts Hazardous Substances List Minnesota Hazardous Substances List New Jersey Right to Know Hazardous Substances List New York List of Hazardous Substances Pennsylvania Hazardous Substances List Washington Permissible Exposure Limits for Air Contaminants Wisconsin Hazardous Substances List</p> </td> <td> <p>Butyl Acetate, Ethyl Acetate, Isopropanol Butyl Acetate, Ethyl Acetate, Nitrocellulose, Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Isopropanol, Nitrocellulose Butyl Acetate, Ethyl Acetate Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Butyl Acetate, Ethyl Acetate, Isopropanol, Heptane Ethyl Acetate</p> </td> </tr> </table>	<p>California OSHA Hazardous Substances List Delaware Air Quality Management List Massachusetts Hazardous Substances List Minnesota Hazardous Substances List New Jersey Right to Know Hazardous Substances List New York List of Hazardous Substances Pennsylvania Hazardous Substances List Washington Permissible Exposure Limits for Air Contaminants Wisconsin Hazardous Substances List</p>	<p>Butyl Acetate, Ethyl Acetate, Isopropanol Butyl Acetate, Ethyl Acetate, Nitrocellulose, Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Isopropanol, Nitrocellulose Butyl Acetate, Ethyl Acetate Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Butyl Acetate, Ethyl Acetate, Isopropanol, Heptane Ethyl Acetate</p>	
<p>California OSHA Hazardous Substances List Delaware Air Quality Management List Massachusetts Hazardous Substances List Minnesota Hazardous Substances List New Jersey Right to Know Hazardous Substances List New York List of Hazardous Substances Pennsylvania Hazardous Substances List Washington Permissible Exposure Limits for Air Contaminants Wisconsin Hazardous Substances List</p>	<p>Butyl Acetate, Ethyl Acetate, Isopropanol Butyl Acetate, Ethyl Acetate, Nitrocellulose, Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Isopropanol, Nitrocellulose Butyl Acetate, Ethyl Acetate Ethanol, Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor, Heptane Butyl Acetate, Ethyl Acetate, Isopropanol, Heptane Ethyl Acetate</p>			
15.8	<p>67/548/EEC (European Union) Requirements: The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC: Butyl Acetate: Flammable (F). R: Flammable. S: 9-16-33 -Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Ethyl Acetate: Flammable (F). R: 11-36/37/38 – Highly flammable. Irritating to eyes, respiratory system and skin. S: 2-16-23-29-33 – Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Do not empty into drains. Take precautionary measures against static discharges.</p>			

16. OTHER INFORMATION

16.1	<p>Other Information: EXTREMELY FLAMMABLE! Keep away from heat or flame. Use only as directed. Avoid eye contact. If contact occurs, flush eye thoroughly with running water. Use only in a well-ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. Keep container closed. Store in a cool place. KEEP OUT OF REACH OF CHILDREN.</p>	
16.2	<p>Terms & Definitions: Please see last page of this MSDS.</p>	
16.3	<p>Disclaimer: This Material 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 Products Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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.</p>	
16.4	<p>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/</p>	
16.5	<p>Prepared by: ShipMate, Inc. P.O. BOX 787 Sisters, OR. 97759-0787 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com</p>	

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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
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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.
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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:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
Boots	Synthetic Apron	Full Suit	Dust Respirator
Vapor Respirator	Dust & Vapor Respiator	Full Face Respirator	Airline Hood/Mask or

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

FLAMMABILITY LIMITS IN AIR:

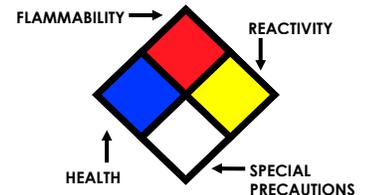
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA 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:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₅₀ or TC, TC₁₀, LC₁₀, & LC₅₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	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	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)
CPR	Canada's Controlled Product Regulations

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

WHMIS INFORMATION:

A	B	C	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive