$0.9 \cdot 1$ Page 1 of 6 SAFETY DATA SHEET SDS-002 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.2 SDS Revision Date: 9/18/2018 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: OPI ABSOLUTE LIQUID MONOMER 12 Chemical Name: Methacrylate Solution 1.3 Synonyms NA 14 Trade Names NA 1.5 Product Use: Professional Use Only 1.6 Distributor's Name OPI Products, Inc. 1.7 Distributor's Address: 4500 Park Granada Blvd, Calabasas, CA 91302 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377) 1.9 Business Phone / Fax: Tel: +1 (818) 999-5112 2. HAZARDS IDENTIFICATION 21 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. Classification: Flam. Liq. 2; Skin Sens. 1A; Eye Irrit. 2B 2.2 Label Elements: 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/mist/vapors/spray. P264 - Wash exposed skin areas thoroughly with soap and water after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with soap and water. P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P333+P313 - If skin irritation or a rash occurs - Get medical advice/attention. P321 - For specific first aid treatment (See Section 4 of this Safety Data Sheet). P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire, 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) Other Warnings: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m3) ACGIH NOHSC **OSHA** maa ppm ppm ES-ES-ES-CHEMICAL NAME(S) RTECS No. EINECS No. TLV STEL TWA PEAK PEL STEL IDLH OTHER CAS No. STEL 60-100 OZ4550000 202-597-5 97-63-2 (15) NA NF NF NF (10)NA NA ETHYL METHACRYLATE Flam. Liq. 2; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; STOT SE 3, H225, H315, H31 H319 H33 UD3442500 HYDROXYPROPYL 27813-02-1 248-666-3 7-13 NA NA NF NF NF NA NA NA **METHACRYLATE** Skin Sens. 1: Eve Irrit. 2: H317. H319 97-90-5 OZ4400000 202-617-2 1-5 NA NA NF NF NF NA NA NA **GLYCOL HEMA-METHACRYLATE** STOT SE 3; Skin Sens. 1; H335, H317 HYDROXYETHYL 2842-44-6 220-638-5 1-5 NA NA NF NF NF NA NA NA METHYLTOLYLAMINE GO6860000 0.1-1 2440-22-4 219-470-5 NA NA NF NF NF NA NA NA DROMETRIZOI E **BUTYLATED HYDROXYTOLUENE** GO7875000 204-881-4 128-37-0 0-0.1 NA NA NF 10 NF NA NA NA Acute Aq. Tox. 1; Chronic Aq. Tox. 1; H400, H410 CB7700000 201-353-5 NA NA NF NF 81-48-1 CI 60725 (VIOLET 2) 4. FIRST AID MEASURES First Aid: If ingested, do not induce vomiting! Contact the nearest Poison Control Center or local emergency Ingestion: number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open Eyes: and close eyelid(s) to ensure thorough irrigation. IF problem persists, seek immediate medical attention. If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough Skin: washing of the affected area with plenty of soap and water. Do not wear contaminated clothing until after

Inhalation:

immediate medical attention.

it has been properly cleaned. If irritation, redness or swelling persists, consult a physician immediately. Remove victim to fresh air at once. If breathing stops, perform artificial respiration at once. Seek

Special Precautions:

7.3

Page 2 of 6 **SAFETY DATA SHEET** SDS-002 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.2 SDS Revision Date: 9/18/2018 4. FIRST AID MEASURES Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system Ingestion: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. Eyes: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated Skin: contact. Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory Inhalation: 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 may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 4.4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Chronic Health Effects: 4.5 None known 4 6 Target Organs: Eyes, Skin, Respiratory System. Pre-existing dermatitis, other skin conditions, and disorders of the 47 Medical Conditions HEALTH 2 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). 3 **FLAMMABILITY** PHYSICAL HAZARDS 2 PROTECTIVE EQUIPMENT В EYES SKIN 5. FIREFIGHTING MEASURES DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, Fire & Explosion Hazards: 5.1 sparks & open flame. Keep container closed. CO₂, Halon (if permitted), Dry Chemical, Foam, as authorized. Extinguishing Methods: 5.2 This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily 5.3 Firefighting Procedures: 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. HazChem Code: 3(Y)E Hazard Identification Number: 33 6. ACCIDENTAL RELEASE MEASURES 6 1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For 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 promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a wellventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. Keep away from children at all times!

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.

Page 3 of 6

 $O \cdot P \cdot I$ **SAFETY DATA SHEET SDS-002** Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.2 SDS Revision Date: 9/18/2018 8. EXPOSURE CONTROLS & PERSONAL PROTECTION OTHER Exposure Limits: NOHSC ES-TWA ES-STEL ES-PEAK ppm (mg/m³) CHEMICAL NAME(S) STEL PEL STEL ETHYL METHACRYLATE (15) NA NF NF NF (10) NA NA BUTYLATED HYDROXYTOLUENE NA NA NF 10 NF NA NA NA

		(BHT) NA NA NA NA NA NA						
8.2	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.						
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, EU member states, or Australia.						
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.						
8.5	Hand Protection:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & epeated 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 EU member states.						
8.6	Body Protection:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.						
		9. PHYSICAL & CHEMICAL PROPERTIES						
9.1	Appearance:	Blue liquid						
9.2	Odor:	Mild acrylic odor						
9.3	Odor Threshold:	NE NE						
9.4	pH:	NA NA						
9.5	Melting Point/Freezing Point:	NE NE						
9.6	Initial Boiling Point/Boiling Range:	117 °C (243 °F)						
9.7	Flashpoint:	21 °C (70 °F)						
9.8	Upper/Lower Flammability Limits:	ND ND						
9.9	Vapor Pressure:	NA NA						
9.10	Vapor Density:	Vapor density (Air=1): > 1.0						
9.11	Relative Density:	0.918						
9.12	Solubility:	Slightly soluble						
9.13	Partition Coefficient (log Pow):	NA NA						
9.14	Autoignition Temperature:	ND						
9.15	Decomposition Temperature:	NA NA						
9.16	Viscosity:	NE NE						
9.17	Other Information:	NA NA						
		10. STABILITY & REACTIVITY						
10.1	Stability:	Relatively stable under ambient conditions when stored properly.						
10.2	Hazardous Decomposition Products:	If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon & nitrogen).						
10.3	Hazardous Polymerization:	May occur, if exposed to extremely high temperatures.						
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.						
10.5	Incompatible Substances:	Strong oxidizers, peroxides, strong alkalis or acids.						
		44 TOVICOLOGICAL INFORMATION						
		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 toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. This data has not been presented in this document.						
11.3	Acute Toxicity:	See Section 4.4						
11.4	Chronic Toxicity:	See Section 4.5						
11.5	Suspected Carcinogen:	This product contains <u>Butylated Hydroxytoluene (BHT)</u> which is not carcinogenic to humans, but is listed as Group 3 carcinogens by the IARC. WARNING : This product can expose you to chemicals including Dimethyltolylamine, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.						

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SAFETY DATA SHEET

Page 4 of 6 SDS-002

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.2 SDS Revision Date: 9/18/2018 11. TOXICOLOGICAL INFORMATION – cont'd 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. However, animal mutation data are available for Mutagenicity: the components of this product. This product is not reported to produce embryotoxic effects in humans. Embryotoxicity: This product is not reported to produce teratogenic effects in humans. Teratogenicity: Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. 11.7 Irritancy of Product See Section 4.3 Biological Exposure Indices: 11.8 NF Physician Recommendations: Treat symptomatically. 11.9 12. ECOLOGICAL INFORMATION This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. 12.1 Environmental Stability: Effects on Plants & Animals: There are no specific data available for this product. 12.2 There are no specific data available for this product. Releases of large volumes may be harmful or fatal to overexposed Effects on Aquatic Life 123 aquatic life. Aquatic toxicity data for components of this product are available, but are not presented in this Safety Data Sheet 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal Waste disposal must be in accordance with appropriate Federal, state, and local regulations. 13 2 Special Considerations: U.S. EPA Characteristic Waste: D001 (characteristic - ignitable) 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): UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D - until 01/01/2021 14.2 IATA (AIR): UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, , (LTD QTY, IP VOL ≤ 0.5 L); or ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) IMDG (OCN): 14.3 UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) 14.4 TDGR (Canadian GND): UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) ADR/RID (EU): 14.5 UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) SCT (MEXICO): 14.6 UN2277, ETIL METACRILATO, STABILIZADO, 3, II, (CANT. LTDA., IP VOL ≤ 1.0 L) 14.7 ADGR (AUS): UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements. Requiremen SARA Threshold Planning 15.2 There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are otherwise exempt. 15.3 CERCLA Reportable Quantity 15.4 Ethyl Methacrylate: 454 kg (1,000 lbs) (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). 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: Ethyl Methacrylate is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). Glycol Hema-Methacrylate is found on the following state criteria lists: NJ and PA. Butylated Hydroxytoluene (BHT) is found on the following state criteria lists: FL, MA, MN, PA, and WA. <u>Dimethyltolylamine</u> is found on the following state criteria lists: CA65, NJ and PA. 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).

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SAFETY DATA SHEET

Page 5 of 6 SDS-002

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.2 SDS Revision Date: 9/18/2018 15. REGULATORY INFORMATION – cont'd 15.8 Other Requirements: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information, go to www.P65warnings.ca.gov 16. OTHER INFORMATION DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IN CONTACT WITH SKIN. MAY 16.1 Other Information CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. Keep away from heat/sparks/open flame/hot surfaces - No Smoking. Keep container tightly closed. Take precautionary measures against static discharge. Avoid breathing fume/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. Precisely follow directions and Safety Data Sheet (available through your supplier) for use. Avoid skin contact. If redness or other signs of adverse reaction occur, discontinue use immediately. Use only in a well-ventilated area. A ventilation system that expels vapors to the outdoors is recommended. KEEP OUT OF REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY! 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. 4500 Park Granada Blvd Calabasas, CA 91302 USA Tel: +1 (818) 999-5112 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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SAFETY DATA SHEET

Page 6 of 6 SDS-002

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

SDS Revision: 4.2

SDS Revision Date: 9/18/2018

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				
RTECS No.	Registry of Toxic Effects of Chemical Substances Number				
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number				

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists			
IDLH	Immediately Dangerous to Life and Health			
NOHSC National Occupational Health and Safety Commission (Australia)				
OSHA U.S. Occupational Safety and Health Administration				
PEL	Permissible Exposure Limit			
STEL	Short Term Exposure Limit			
TLV	Threshold Limit Value			
TWA	Time Weighted Average			

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D			
Е			
F			





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic			
Irrit	Irritant			
NA	Not Available			
NR	No Results			
ND	Not Determined			
NE	Not Established			
NF	Not Found			
SCBA	Self-Contained Breathing Apparatus			
Sens	Sensitization			
STOT RE	Specific Target Organ Toxicity – Repeat Exposure			
STOT SE	Specific Target Organ Toxicity – Single Exposure			

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	REACTIVITY
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ V W Y
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
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			
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)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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

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

•				\Diamond			(1)		*
	GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
	Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment