

Page 1 of 6

**PRO1-020** Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 1272/2008/EC & GHS Standards SDS Revision: 2.0 SDS Revision Date: 2/22/21 Classification of the Hazardous Chemical (in accordance with WHS Regulation) 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: ProOne<sup>®</sup> XPL-101 PENETRATING LUBRICANT Chemical Name 12 Mineral Oil with Additives 1.3 Synonyms: NA 1.4 Trade Names: ProOne<sup>®</sup> XPL-101 Penetrating Lubricant 15 Product Uses & Restrictions: Lubricating Oil 1.6 Distributor's Name Pro-1-One Lubricant Australia PTY LTD 1.7 Distributor's Address 6/165 Rookwood Rd, Yagoona NSW 2199, Sydney, Australia Poisons Information Centre: Australia: 13 11 26 New Zealand: 0800 764 766 1.8 Emergency Phone: Business Phone / Fax: Tel: +61 1300 00 7761 1.9 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES DAMAGE TO CENTRAL NERVOUS SYSTEM THROUGH PROLONGED OR REPEATED EXPOSURE. CAUSES SKIN IRRITATION. CAUSES EYE IRRITATION. Classification: Asp. Tox. 1, STOT RE 1 Hazard Statements (H): H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H372 - Causes damage to central nervous system (CNS) through prolonged or repeated exposure. Precautionary Statements (P): P260 - Do not breathe fumes/mist/vapors/spray. P264 - Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eve P301+P310 - IF SWALLOWED: Immediately call a POISON protection/ face protection. CENTER/doctor. P331 - Do NOT induce vomiting. P308+P313 - IF exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF). 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m<sup>3</sup>) ACGIH NOHSC OSHA ppm ppm ppm ES ES-ES-RTECS No EINECS No. STEL PEAK STEL IDLH CHEMICAL NAME(S) CAS No. % TLV TWA STEL PEL OTHER 40-70 OIL MIST DISTILLATES (PETROLEUM). 64742-58-1 NA 265-156-6 (5) (10)(5) NA NA (5) NA NA HYDROTREATED SPENT\* Asp. Tox 1; H304 SYNTHETIC FLUIDS & NA NA NA 5-15 NA NA NA NA NA NA NA NA POLYMERS 8052-41-3 232-489-3 WJ8925000 5-10 100 NA NF NA 20000 (350) NIOSH 790 NF 500 **ODORLESS MINERAL SPIRITS\*\*** Flam. Lig. 2, Asp. Tox. 1, STOT RE 1; H226, H304, H372 ProOne<sup>®</sup> PROPRIETARY NA NA NA 5-10 NA NA NF NF NF NA NA NA ADDITIVES \* contains ≤ 3.0% DMSO (DIMETHYLSULFOXIDE) per IP 346. \*\* contains ≤ 0.1% BENZENE 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact ChemTrec +1 (800) 424-9300 or the nearest Poison Control Center 41 First Aid Ingestion: or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or Skin: the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.



Page 2 of 6 **PRO1-020** 

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SDS Revision: 2.0

SDS Revision Date: 2/22/21

Classification of the Hazardous Chemical (in accordance with WHS Regulation) FIRST AID MEASURES – cont'd 42 Effects of Exposure: Ingestion: If product is swallowed, may cause gastrointestinal disturbance. Exposure to mists/fumes/vapors/spray may cause eye irritation. Symptoms of overexposure may include Eyes: redness, itching, irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose Inhalation: and respiratory tract. Drowsiness, dizziness, headaches and nausea. 4.3 Symptoms of Ingestion: If product is swallowed, may cause gastrointestinal disturbance. Overexposure: Eyes: Exposure to mists/fumes/vapors/sprav may cause eve irritation. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in <u>Skin</u>: some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high 4.4 Acute Health Effects concentrations of fumes/vapors can cause coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.5 Chronic Health Effects: Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Target Organs: 46 Eyes, Skin, Respiratory System, Central Nervous System (CNS) 47 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the target HEALTH 1 Aggravated by Exposure: organs (eyes, skin, CNS) may be more susceptible to the effects of this 1 FLAMMABILITY substance. PHYSICAL HAZARDS 0 В **PROTECTIVE EQUIPMENT** EYES SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This material can burn but will not readily ignite. This material will release vapors when heated above 51 the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus and nitrogen. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released. 5.2 Extinguishing Methods: Dry chemical, foam, carbon dioxide, and water fog. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boil over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 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 municipal sewers and open bodies of water.



Page 3 of 6 PRO1-020

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

SDS Revision: 2.0

SDS Revision Date: 2/22/21

Class	Classification of the Hazardous Chemical (in accordance with WHS Regulation)							
	7. HANDLING & STORAGE INFORMATION							
7.1	Work & Hygiene Practices:	Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking.						
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices. Recommended maximum shelf life: 36 months.						
7.3	Special Precautions:	Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning. Keep container tightly closed when not in use. Do not store at temperatures above 120 °F (49 °C). Store away from strong oxidizers.						

#### 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

		8. EXPOSURE CONTROLS & PERSONAL PROTECTION									
8.1	Exposure Limits:									OTHER	
	ppm (mg/m <sup>3</sup> )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		DISTILLATES (PETROLEUM), HYDROTREATED SPENT	5	NF	NF	NF	NF	5	NF	NF	MIST
		ODORLESS MINERAL SPIRITS	100	NA	NF	790	NF	500	NA	20000	(350) NIOSH
8.2	Ventilation & Engineering Controls:	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilatio that an evewash station, sink or washbasin is available in case of exposure to eves.									on, fans). Ensure
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, E.C. member states, or Australia. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist pre-filter should be used. Protection factors vary depending upon the type of respirator used.									
8.4	Eye Protection:	Safety glasses with side shields m shield is also recommended. Wear Have suitable eye wash water avail		8							
8.5	Hand Protection:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. 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:	Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek <sup>®</sup> ) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove contaminated clothing. Launder contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.									

### 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	This product is a straw/amber oily colored liquid
9.2	Odor:	Mild petroleum odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	100 °C (212 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	Negligible
9.10	Vapor Density:	NA
9.11	Relative Density:	0.86-0.88
9.12	Solubility:	Insoluble
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	Evaporation Rate: negligible (n-BuAc=1); VOC: negligible



Page 4 of 6 **PRO1-020** 

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SDS Revision: 2.0

SDS Revision Date: 2/22/21

Classi	fication of the Hazardous	Chemical (in accordance with WHS Regulation)
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable, when used as intended.
10.2	Hazardous Decomposition Products:	Thermal decomposition products include oxides of carbon, oxides of nitrogen, sulfur and molybdenum.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Heat, sparks, open flame and all possible ignition sources.
10.5	Incompatible Substances:	Avoid contact with strong oxidizing agents, strong reducing agents, strong acids and strong alkalis.

### **11. TOXICOLOGICAL INFORMATION**

11.1	Routes of Entry:	Inhalation: NO	Absorption:	YES	Ingestion:	YES						
11.2	Toxicity Data:	This product has NOT been tested on anima	ls to obtain toxicology	/ data. Toxicolo	gy data, found in scie	entific literature, is						
		available for some of the components of the product and is presented below:										
		Distillates (Petroleum), Hydrotreated Spent: LD₅0 (oral, rat) > 5000 mg/kg; LD₅0 (dermal, rabbit) > 2000 mg/kg. Odorless Mineral Spirits: LD₅0 (oral, rat): 5,000 mg/kg										
11.3	Acute Toxicity:	Anional oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects										
			om single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace kposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-									
		acute studies involving exposures to lower co										
		produced no significant toxicological effects.			near current work plat							
11.4	Chronic Toxicity:	In long term studies (up to two years) no carci	nogenic effects have b	been reported in	any animal species te	ested.						
11.5	Suspected Carcinogen:	This product contains a severely hydrotreated										
		not considered a carcinogen.										
11.6	Reproductive Toxicity:	This product is not reported to produce reproc	luctive toxicity in huma	ans.								
	Mutagenicity:	This product is not reported to produce mutag										
	Embryotoxicity:	This product is not reported to produce embry										
	Teratogenicity:	This product is not reported to produce terato	2									
	Reproductive Toxicity:	This product is not reported to produce reproc	luctive effects in huma	ins.								
11.7	Irritancy of Product:	See section 4.3										
11.8	Biological Exposure Indices:	NE										
11.9	Physician Recommendations:	Treat symptomatically.										
		12. ECOLOGIC										
12.1	Environmental Stability:		_	-	provent release to the	anvironmont						
12.1	Effects on Plants & Animals:	This product is believed to be stable. Engined If applied to leaves, this product may kill gra										
		product is not toxic to fish but may coat gill s		, 0								
		may be moderately toxic to amphibians by pr										
		in birds and mammals through ingestion durin										
12.3	Effects on Aquatic Life:	There are no specific data available for this pr	oduct.									
		13. DISPOSAL (	CONSIDERATI	ONS								
13.1	Waste Disposal:	Dispose of in accordance with federal, state,			aws.							
13.2	Special Considerations:	If the material is unsuitable for recycling or re				d unless otherwise						
		prohibited by local ordinance.	,									
		14. TRANSPORTA										
The desc	basic description (ID N riptive information may	umber, proper shipping name, hazard class & be required by 49 CFR, IATA/ICAO, IMDG and	division, packing grou d the CTDGR.	p) is shown for e	each mode of transpor	rtation. Additional						
14.1	49 CFR (GND):	NOT REGULATED										
14.2	IATA (AIR):	NOT REGULATED										
14.3	IMDG (OCN):	NOT REGULATED										
14.4	TDGR (Canadian GND):	NOT REGULATED										
14.5	ADR/RID (EU):	NOT REGULATED										
14.6	SCT (MEXICO):	NOT REGULATED										
14.7	ADGR (AUS):	NOT REGULATED										
L												



Page 5 of 6 **PRO1-020** 

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

SDS Revision: 2.0

SDS Revision Date: 2/22/21

Classification of the Hazardous Chemical (in accordance with WHS Regulation)

### **15. REGULATORY INFORMATION**

		15. REGULATORY I	NFORMATION							
15.1	SARA Reporting Requirements:	This product does not contain any substances subje	ect to SARA Title III, section 313 reporting requirements.							
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities	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):	NA								
15.5	Other Federal Requirements:	, , , , , , , , , , , , , , , , , , , ,	ollutants. None of the components in this product are listed as priority s in this product are listed as toxic pollutants under the CWA.							
15.6	Other Canadian Regulations:	This product has been classified according to the h of the information required by the CPR. The compo None of the components of this product are listed or WHMIS D2B (Other Toxic Effects)	onents of this product are listed on the DSL/NDSL.							
15.7	State Regulatory Information:	Hazardous Substances List (MA), Minnesota Haz Pennsylvania Right-to-Know List (PA) and Washing No other ingredients in this product, present in a co criteria lists: California Proposition 65 (CA65), Dela (FL), Massachusetts Hazardous Substances List Substances List (MN), New Jersey Right-to-Know	state criteria list(s): Florida Toxic Substances List (FL), Massachusetts zardous Substances List (MN), New Jersey Right-to-Know List (NJ), ton Permissible Exposures List (WA). oncentration of 1.0% or greater, are listed on any of the following state aware Air Quality Management List (DE), Florida Toxic Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous List (NJ), New York Hazardous Substances List (NY), Pennsylvania kposures List (WA), Wisconsin Hazardous Substances List (WI).							
15.8	Other Requirements:	The primary components of this product are not listed Distillates (Petroleum), Hydrotreated Spent: Toxic Safety Phrases (S): 53-45 – Avoid exposure – of accident or if you feel unwell seek medical advice in Odorless Mineral Spirits: Flammable (F). Risk Phrase instructions before use. In case of accident or if (show the label where possible).	d in Annex I of EU Directive 67/548/EEC: (T). <u>Risk Phrases</u> (R): 45 – May cause cancer. branediately (show the label where possible). <u>ases</u> (R): 12-65 – Highly flammable. Harmful: may <u>ase</u> (S): 53-45 – Avoid exposure – obtain special							
16.1	Other Information:	SYSTEM THROUGH PROLONGED OR REPE IRRITATION. Do not breathe fumes/mist/vapors/s thoroughly after handling. Do not eat, drink or sn POISON CENTER/doctor. Do NOT induce vomiting advice/attention if you feel unwell. If skin irritation and wash it before reuse. IF IN EYES: Rinse cauti and easy to do. Continue rinsing. If eye irritation p REACH OF CHILDREN.	DRMATION DENTERS AIRWAYS. CAUSES DAMAGE TO CENTRAL NERVOUS ATED EXPOSURE. CAUSES SKIN IRRITATION. CAUSES EYE pray. Wash hands and exposed skin areas with soap and warm water noke when using this product. IF SWALLOWED: Immediately call a g. IF exposed or concerned: Get medical advice/attention. Get medical occurs: Get medical advice/attention. Take off contaminated clothing ously with water for several minutes. Remove contact lenses if present ersists: Get medical advice/attention. Store locked up. KEEP OUT OF							
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.								
16.3	Disclaimer:	government regulations must be reviewed for app knowledge, the information contained herein is re completeness is not guaranteed and no warranties contained herein relates only to the specific product	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other licability to this product. To the best of ShipMate's & ProOne, Inc.'s liable and accurate as of this date; however, accuracy, suitability or of any type, either expressed or implied, are provided. The information ct(s). If this product(s) is combined with other materials, all component led from time to time. Be sure to consult the latest edition.							
16.4	Prepared for:	Pro-1-One Lubricant Australia PTY LTD 6/165 Rookwood Rd, Yagoona NSW 2199, Sydney, Australia Tel: +61 1300 00 7761 e-mail: info@pro-one.net.au http://www.pro-one.net.au	EXTREME LUBRICANTS							
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 Dangerous Goods Training & Consulting							



SDS Revision: 2.0

Page 6 of 6 **PRO1-020** 

SDS Revision Date: 2/22/21

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Classification of the Hazardous Chemical (in accordance with WHS Regulation)

### **DEFINITION OF TERMS**

GHS01

Explosive

GHS02

Flammable

GHS03

Oxidizer

GHS04

Pressurize

GHS05

Corrosive

GHS06

Toxic

GHS07

Harmfu

Irritating

GHS08

Health

Hazard

GHS09

Environmer

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	EXPOSURE LIMITS IN AIR:						
ACGIH	American Conference on Governmental Industrial Hygienists						
С	Ceiling Limit						
ES	Exposure Standard (Australia)						
IDLH	Immediately Dangerous to Life and Health						
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 M	FIRST AID MEASURES						

#### AID MEASURES:

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

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:							
0	Minimal Hazard	HEALTH					
1	Slight Hazard	FLAMMABIL	ITY				
2	Moderate Hazard	PHYSICAL H	AZARDS				
3	Severe Hazard	PERSONAL	PROTECTION				
4	Extreme Hazard						

#### PERSONAL PROTECTION RATINGS:

NR

No Results

ppm parts per million

Α	0					G	0	E		2	
в						н		E		E P	8
С	0		B			I		E		3	
D	B		盘			J		E			8
Е			0			Κ	(1) (1)	E	9	Ð	
F			品			X	Consult special I				
Sa	Safety Glasses Splash Goggles			Р		Shield & ive Eyew			Glove	s	
	Boots		Synthet	c Apron	Ρ		ive Cloth	ing	Dust	Resp	irator
Full F	Full Face Respirator						III Face spirator			Hoo	d/Mask 3A
отн	OTHER STANDARD ABBREVIATIONS:										
ML Maximum Limit											
mg/m3 milligrams per cubic meter											
	NA	Not Av									
	ND		termined								
	NE	Not Est Not Fo	tablished								
	NF										

#### HAZARD RATINGS: FLAMMABILITY 0 Minimal Hazard 1 Slight Hazard REACTIVITY 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline COR Corrosive HEALTH ₩ Use No Water SPECIAL OX Oxidizer PRECAUTIONS TREFOIL Radioactive TOXICOLOGICAL INFORMATION: Lethal Dose (solids & liquids) which kills 50% of the exposed animals LD<sub>50</sub> LC<sub>50</sub> Lethal concentration (gases) which kills 50% of the exposed animal Concentration expressed in parts of material per million parts ppm TD<sub>lo</sub> Lowest dose to cause a symptom TCLo Lowest concentration to cause a symptom TD<sub>io</sub>, LD<sub>io</sub>, & LD<sub>o</sub> or Lowest dose (or concentration) to cause lethal or toxic effects TC, TC<sub>o</sub>, LC<sub>io</sub>, & LC<sub>o</sub> IARC International Agency for Research on Cancer NTP National Toxicology Program RTECS Registry of Toxic Effects of Chemical Substances BCF **Bioconcentration Factor** TL<sub>m</sub> Median threshold limit log Kow or log Koc Coefficient of Oil/Water Distribution **REGULATORY INFORMATION:** WHMIS Canadian Workplace Hazardous Material Information System DOT U.S. Department of Transportation тс Transport Canada EPA U.S. Environmental Protection Agency DSL Canadian Domestic Substance List NOHSC National Occupational Health and Safety Commission (Australia) 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) HMIS-III National Paint & Coatings Association Hazardous Materials Identification System WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM: Ř 0 4 囊 ð 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: Q 100 10 С Е F Ν 0 т Xi Xn Flammable Corrosive Explosive Harmful Oxidizing Toxic Irritant Harmful CLP/GHS (1272/2008/EC) PICTOGRAMS: Ł 砂 <u>s</u> Ö ¥\_

SCBA	Self-Contained Breathing Apparatus						
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA							
FLAMMABILI	TY LIMITS IN AIR:						
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition	1					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	L					
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source						