SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 1272/2008/EC & GHS Standards | SDS Revision: 1.0 | SDS Revision Date: 2/22/2021

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

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	**ProOne® ANTI-MICROBE FUEL ADDITIVE**
1.2	Chemical Name:	Mixture
1.3	Synonyms:	NA
1.4	Trade Names:	ProOne® Anti-Microbe Fuel Additive
1.5	Product Uses & Restrictions:	Fuel Additive
1.6	Distributor's Name:	Pro-1-One Lubrication Australia PTY LTD
1.7	Distributor's Address:	6/165 Rookwood Rd, Yagoona NSW 2199, Sydney, Australia
1.8	Emergency Phone:	**Poisons Information Centre: Australia: 13 11 26 New Zealand: 0800 764 766**
1.9	Business Phone / Fax:	Tel: +61 1300 00 7761

2. HAZARDS 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). 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! FATAL IF INHALED. TOXIC IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES SEVERE EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. VERY TOXIC TO AQUATIC LIFE. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

Classification: Acute Inh. Tox. 2; Acute Oral Tox. 3, Skin Corr. 1B, Aq. Acute 1, Aq. Chronic 1

Hazard Statements (H): H330 - Fatal if inhaled. H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H319 - Causes severe eye irritation. H317 - May cause an allergic skin reaction. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P260 – Do not breathe fumes/mists/vapors/spray. P264 – Wash thoroughly with soap and warm water thoroughly after handling. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment. P280 – Wear protective gloves/eye protection/ face protection. P284 – In case of inadequate ventilation, wear respiratory protection. P301 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 – Immediately call a POISON CENTER/doctor. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 – IF exposed of concerned: Get medical advice/attention. P320 – Specific treatment is urgent - see this container label. P391 – Collect spillage. P403+P233 – Store in a well ventilated place. Keep container tightly closed. P405 – Store locked up. P501 - Dispose of contents/ container to an approved waste disposal plant. **KEEP OUT OF REACH OF CHILDREN**.

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³) ACGIH ppm TLV	ACGIH ppm STEL	NOHSC ppm ES-TWA	NOHSC ppm ES-STEL	NOHSC ppm ES-PEAK	OSHA ppm PEL	OSHA ppm STEL	OSHA ppm IDLH	OTHER
DIETHYLENE GLYCOL METHYL ETHER	111-77-3	KL6125000	203-906-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
	Repr.2; H361d												
TCMTB ((BENZOTHIAZOL-2-YLTHIO) METHYL THIO-CYANATE)	21564-17-0	XK8151000	244-445-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
	Acute Tox. 2; Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H302, H319, H315, H317, H400, H410												
METHYLENE DITHIOCYANATE	6317-18-6	XL1560000	228-652-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
	Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Aquatic Acute 1; H330, H301, H314, H317, H400												
ProOne PROPRIETARY	NA	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	

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4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:	**DO NOT INDUCE VOMITING.** Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center 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.
		Eyes:	If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, 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.
		Skin:	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.
		Inhalation:	Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration.
4.2	Effects of Exposure:	Eyes:	Severe or permanent eye damage.
		Skin:	Burns upon direct contact.
		Ingestion:	Severe burns of mouth, throat, stomach.
		Inhalation:	Severe irritation or burns in respiratory tract and mucous membranes. Possible lung damage.
4.3	Symptoms of Overexposure:	Eyes:	Redness, burning, irritation, and swelling around eyes
		Skin:	Redness, burning, itching, rash, blistering of skin.
		Ingestion:	Nausea, vomiting, severe abdominal pain.
		Inhalation:	Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing.
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin.	
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.	
4.6	Target Organs:	Eyes, skin, respiratory system	
4.7	Medical Conditions Aggravated by Exposure:	Individuals with allergies or impaired respiratory function may have symptoms worsened by exposure to welding fumes; however, such reaction cannot be predicted due to the variation in the composition and in the quantity of the decomposition products.	

HEALTH			3
FLAMMABILITY			2
PHYSICAL HAZARDS			1
PROTECTIVE EQUIPMENT			H
EYES	SKIN	LUNGS	

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, flames or other ignition sources. 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 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, water spray, any class "C" extinguisher, Halon if permitted.
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.

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

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well-ventilated 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!
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.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

			ACGIH		NOHSC			OSHA			OTHER
8.1	Exposure Limits: ppm (mg/m^3)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		NA	NA	NA	NF	NF	NF	NA	NA	NA	

8.2	Ventilation & Engineering Controls:	The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommended occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38 °C) or is agitated.	
8.3	Respiratory Protection:	Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. 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. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).	
8.4	Eye Protection:	Wear protective eyewear (e.g., chemical safety goggles) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Wear goggles and/or face-shield if splashing or spraying is anticipated. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
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. Use heat-protective gloves when handling product at elevated temperatures.	
8.6	Body Protection:	Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®). Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove all contaminated clothing. Launder all contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded.	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Clear amber liquid
9.2	Odor:	Mild odor.
9.3	Odor Threshold:	NA
9.4	pH:	6.0-7.0
9.5	Melting Point/Freezing Point:	<-30 °C (<-22 °F)
9.6	Initial Boiling Point/Boiling Range:	>190 °C (>374 °F)
9.7	Flashpoint:	70 °C (158 °F) c.c.
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	<0.1
9.10	Vapor Density:	1.03 g/cm
9.11	Relative Density:	0.84-0.90
9.12	Solubility:	Dispersible in water
9.13	Partition Coefficient (log P_{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

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10. STABILITY & REACTIVITY

10.1	Stability:	Stable at normal temperatures.
10.2	Hazardous Decomposition Products:	Fumes, smoke, carbon monoxide, silicon oxides.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, and close proximity to incompatible substances.
10.5	Incompatible Substances:	Strong oxidizing agents.

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 animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is not presented in this document. Diethylene Glycol Methyl Ether: LD_{50} (oral, rat) >7,190 mg/kg					
11.3	Acute Toxicity:	See section 4.4					
11.4	Chronic Toxicity:	In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.					
11.5	Suspected Carcinogen:	This product does NOT contain ingredient(s) found on the following list: IARC, CAL/OSHA, Federal OSHA Z list, NTP.					
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans. Specific ingredient information: Diethylene Glycol Methyl Ether: Possible risk of congenital malformation in the fetus. Suspected human reproductive toxicant. Overexposure may cause reproductive disorder(s) based on test with laboratory animals.					
	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 produce teratogenic effects in humans.					
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.					
11.7	Irritancy of Product:	See section 4.3					
11.8	Biological Exposure Indices:	NE					
11.9	Physician Recommendations:	Treat symptomatically.					

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local hazardous waste laws.
13.2	Special Considerations:	NA

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)*:	CONSUMER COMMODITY, ORM-D – until 01/01/2021 or UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIO-CYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 0.1 L)	
14.2	IATA (AIR)*:	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIOCYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 0.1 L)	
14.3	IMDG (OCN)*:	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIOCYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 1.0 L)	
14.4	TDGR (Canadian GND):	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIOCYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 1.0 L) or "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)	
14.5	ADR/RID (EU)*:	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIOCYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 1.0 L)	
14.6	SCT (MEXICO):	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (TIOCIANOMETILTIOBENZOTIAZOLE, METILENO BIS(TIOCIANATO), 8, (6.1), II, (CANT. LTDA., IP VOL ≤ 1.0 L)	
14.7	ADGR (AUS):	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (THIOCYANOMETHYLTHIOBENZOTHIAZOLE, METHYLENE BIS(THIOCYANATE), 8, (6.1), II, (LTD QTY, IP VOL ≤ 1.0 L)	

* This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)

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

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
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):	NA
15.5	Other Federal Requirements:	This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS 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 D2B (Other Toxic Effects) 
15.7	State Regulatory Information:	Diethylene Glycol Methyl Ether is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ), and Pennsylvania Right-to-Know List (PA). Methylene Dithiocyanate is found on the following state criteria list: MA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product is listed in Annex I of EU Directive 67/548/EEC: Diethylene Glycol Methyl Ether: Harmful (Xn). Risk Phrases (R): 63 – Possible risk of harm to the unborn child. Safety Phrases (S): (2)-36/37 – Keep out of reach of children. Wear suitable protective clothing and gloves. TCMTB (Thiocyanomethylthiobenzothiazole): Toxic, Environmental Danger (T, N). Risk Phrases (R): 22-26-36/38-43-50/53 – Harmful if swallowed. Very toxic by inhalation. Irritating to eyes and skin. May cause sensitization by skin contact. Very toxic to aquatic organisms - may cause long-term adverse effects in the aquatic environment. Safety Phrases (S): (1/2)-28-36/37-38-45-60-61 – Keep locked up and out of reach of children. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible.) This material and its container must be disposed of as a hazardous waste. Avoid release to the environment. Refer to special instructions/SDS. Methylene Dithiocyanate: Toxic, Environmental Danger (T, N). Risk Phrases (R): 25-26-34-43-50 – Toxic if swallowed. Very toxic by inhalation. Causes burns. May cause sensitization by skin contact. Very toxic to aquatic organisms. Safety Phrases (S): (1/2)-26-28-36/37/39-45-61 – Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/SDS. 

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

16. OTHER INFORMATION

16.1	Other Information:	**DANGER! FATAL IF INHALED. TOXIC IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES SEVERE EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. VERY TOXIC TO AQUATIC LIFE. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes/mists/vapors/spray. Wash thoroughly with soap and warm water thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/ face protection. In case of inadequate ventilation, wear respiratory protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 – IF exposed of concerned: Get medical advice/attention. Specific treatment is urgent - see this container label. Collect spillage. Store in a well ventilated place. Keep container tightly closed. Store locked up. **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 & ProOne, Inc.'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:	**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
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

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

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
C	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 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.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

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

OTHER STANDARD ABBREVIATIONS:

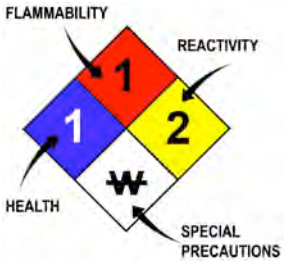
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD_{50}	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC_{50}	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD_{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD_{lo}, LD_{lo}, & LD_o or TC, TC_o, LC_{lo}, & LC_o	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
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

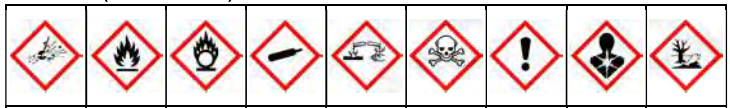
WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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:

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

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



GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment