Page 1 of 11 Product: Soluble Oil Issue Date: 29th July 2016 Revision: 3.2

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: Soluble Oil

1.2 PRODUCT CODE: SOL

1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:

RELEVANT IDENTIFIED USES: General purpose soluble cutting oil.

RESTRICTIONS ON USE: None known.

1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER NAME: PENRITE OIL Company Pty Ltd (ABN: 25005 001 525),
ADDRESS (Australia): 110-116 Greens Road, Dandenong South VIC, Australia, 3175
TELEPHONE NUMBER (Australia): 1300 736 748; +61 3 9801 0877 (Int); Fax: 1800 736 748

ADDRESS (New Zealand): 75 Lady Ruby Drive, East Tamaki, Auckland, New Zealand, 2013

TELEPHONE NUMBER (New Zealand):0800 533 698; Fax: 0800 533 698 E-MAIL: tech@penriteoil.com (Aust and NZ)

1.5 EMERGENCY TEL. NUMBER: Australia: 1300 736 748; New Zealand: 0800 533 698

(Poisons Information Centre (Aust 131 126; NZ 0800 764 766)

1.6 HSNO DETAILS:

HSNO APPROVAL NUMBER: HSR002606.

HSNO GROUP TITLE: Lubricants, Lubricant Additives, Coolants and Anti-Freeze Agents

(Subsidiary Hazard) Group Standard, 2006.

SECTION 2 – HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

GHS CLASSIFICATION HAZARD

CLASS & CATEGORY: Under the Model Work Health and Safety Regulations the product would be

rated as Hazardous based upon information supplied by the manufacturer for

the product and knowledge of similar products: Serious Eye Damage/Irritation - Category 2A

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

SIGNAL WORD: Warning.

PICTOGRAMS:

HAZARD STATEMENTS: H319 - Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

PREVENTION: P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/eye protection/face protection.

RESPONSE: P101 - If medical advice is needed, have product container or label at hand.

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.

STORAGE: Not Applicable.

DISPOSAL: Not Applicable.

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SECTION 2 – HAZARD(S) IDENTIFICATION Continued

2.3 OTHER HAZARDS:

This is a Schedule 5 Poison. Excessive exposure may result in mild irritation to the skin or respiratory system. The product contains a Carbamic acid, butyl-, 3-iodo-2-propynyl ester component (lodocarb). This may produce an allergic reaction. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to exacerbate the condition. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration % W/W	GHS Classification*
Distillates, petroleum, solvent dewaxed heavy paraffinic Boric acid (H ₃ BO ₃), compound with 2,2'-iminobis[ethanol]	64742-65-0	> 60%	Asp Haz 1 - H304
	67952-33-4	1% - 5%	Skin Irrit 2 - H315 Eye Irrit 2A - H319
Poly(oxy-1,2-ethanediyl), .alphatridecylomegahydroxy-	24938-91-8	1% - 5%	Eye Damage 1 - H318
2,5-Furandione, dihydro-, monopolyisobutylene derivatives Fatty acids, tall-oil, reaction products with diethanolamine	67762-77-0	1% - 5%	Eye Irrit 2A - H319
	68153-57-1	1% - 5%	Skin Irrit 2 - H315 Eye Damage 1 - H318
Ethanol, 2-(2-butoxyethoxy)- (Diethylene (Butyl diglycol)	glycol monobutyl ether) 112-34-5	1% - 5%	Eye Irrit 2A - H319
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	1% - 5%	Acute Tox 4 - H302 Skin Irrit 2 - H315
Distillates, petroleum, hydrotreated			Eye Damage 1 - H318
heavy naphthenic	64742-52-5	1% - 5%	Not Applic
Morpholine, 4,4'-methylenebis-	5625-90-1	1% - 5%	Acute Tox 4 - H302 Skin Corr 1B - H314 Eye Damage 1 - H318
Sulfonic acids, petroleum, sodium salts Carbamic acid, butyl-, 3-iodo-2-propynyl Ester (lodocarb)	68608-26-4	1% - 5%	Eye Irrit 2A - H319
	55406-53-6	< 1%	Acute Tox 4 - H302 Skin Irrit 2 - H315 Skin Sen 1 - H317 Eye Damage 1 - H318 Acute Tox 3 - H331 STOT SE 3 - H335 Acute Ag Tox 1 - H400
Other non-hazardous ingredients	-	To 100%	Not Applic

Not Applic = Not Applicable

^{*} Please see Section 15 of this SDS for full text description of the Label Elements.

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SECTION 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION:

For advice, contact a Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766) or a doctor. Rinse mouth out and give a glass of water. Never give fluid to a person exhibiting decreased awareness. Do NOT induce vomiting except under medical supervision. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. As the product is hydrocarbon based and of comparatively low viscosity (~39cSt @ 40°C) to normal oils, if ingested, and irritation develops or persists or vomiting has occurred after ingestion, seek medical assistance.

EYE:

If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a Doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. As the product is an eve irritant, after flushing, if irritation develops or persists, seek medical assistance.

SKIN CONTACT:

If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor.

INHALATION:

If affected, remove the patient from further exposure into fresh air, if safe to do so. If providing assistance, avoid exposure to yourself - only enter contaminated environments with adequate respiratory equipment. Once removed, lay patient down in a well-ventilated area and reassure them whilst waiting for medical assistance. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance. If irritation develops or persists, consult a Doctor.

PROTECTION FOR FIRST AIDERS:

No personnel shall place themselves in a situation that is potentially hazardous to themselves. Assess the scenario for PPE requirements before entering. Assess environment for vapours before entering. Do not enter contaminated area without a respirator. As the product is hydrocarbon based and of relatively low viscosity, if the person has ingested the product, do not use direct mouth-tomouth resuscitation techniques. Always ensure that you are wearing gloves when dealing with first aid procedures involving chemicals and/or blood.

FIRST AID FACILITIES:

Eye wash fountain and safety showers are recommended in the area where the product is used.

ACUTE:

4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE: The product is rated as an eye irritant. Eye contact may lead to localised burning, redness and tearing. Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Ingestion may lead to nausea and diarrhoea. Skin contact may lead to redness or itching.

CHRONIC:

Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis. The product contains a Carbamic acid, butyl-, 3-iodo-2-propynyl ester component (lodocarb). This may produce an allergic reaction. 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

ADVICE TO DOCTOR:

As the product is hydrocarbon based and of Treat symptomatically. comparatively low viscosity (~39cSt @ 40°C) to normal oils, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects to ensure that the product has not aspirated into the lungs.

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SECTION 5 – FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUITABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide,

foam, dry chemical or water spray. Spray down fumes resulting from fire.

UNSUITABLE MEDIA: Avoid using full water jet directed at residual material that may be burning.

Water may cause splattering on hot residue. Product will float on water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Combustion may produce oxides of carbon, nitrogen and sulphur, as well as

smoke and irritating vapours.

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: This product is not flammable under conditions of use. It is a hydrocarbon-

based liquid that will burn if preheated - Typical Flash Point 168°C. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.

HAZCHEM CODE: Not applicable.

EXPLOSION: No information to indicate that the product is an explosion hazard. Extinguish all

sources of flame or spark. Closed containers may explode when exposed to

extreme heat.

PROTECTIVE

EQUIPMENT: In the event of a fire, wear full protective clothing and self-contained breathing

equipment with full-face piece operated in the pressure demand or other

positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION:

For small spills, wear Rubber, Neoprene or PVC gloves, glasses/goggles, boots and full-length clothing. During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt about potential oxygen deficiency wear self-contained breathing apparatus.

CONTROL MEASURES:

Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. CAUTION: The spilled product will be slippery. Avoid contact with the spilled material.

EMERGENCY PROCEDURES: In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

6.2 ENVIRONMENTAL PRECAUTIONS:

SPILL ADVICE: Do not allow product to enter drains, surface water, sewers or watercourses -

inform local authorities if this occurs.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: Contain the spill and absorb with a proprietary absorbent material, sand or

earth. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains

are covered, to minimise the potential for this to occur.

CLEANING PROCEDURES: Having contained the spill, as mentioned above, collect all material quickly and

place used absorbent in suitable containers. Follow local regulations for the disposal of waste. For large spills that have been bunded, the material can be pumped into vessels and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash contaminated area and objects with detergent and water after spill is cleared. Rinse the cleaned area with water. Do not allow wash water/rinsings to enter drains, surface water, sewers or water courses.

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SECTION 7 HANDLING AND STORAGE. INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

7.1 PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING:

Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATABILITIES:

SAFE STORAGE:

This product is a hydrocarbon-based liquid that will burn if preheated. Store in a dry, well ventilated area away from freezing conditions, direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. The manufacturer recommends to store only in original containers at temperatures between 5°C and 25°C. Keep out of reach of children.

INCOMPATIBILITIES: Oxidizing substances including strong acids.

SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 EXPOSURE CONTROL MEASURES:

EXPOSURE LIMIT VALUES: Exposure standards for the product have not been established. The following values are applicable for the individual components:

> Distillates, petroleum, solvent dewaxed heavy paraffinic and Distillates, (Oil mists or aerosols): petroleum, hydrotreated heavy naphthenic

TWA: 10 mg/m³ (ACGIH) 5 mg/m³ STEL:

Sulfonic acids, petroleum, sodium salts (OES - Manufacturer)

TWA: 5 mg/m³ STEL: 10 ma/m³

Ethanol, 2-(2-butoxyethoxy)- (Butyl Diglycol) (HSE - EH40/2005) TWA: 10 ppm 67.5 mg/m³ STEL: 15 ppm 101.2 mg/m³

8.2 BIOLOGICAL

MONITORING: No data available.

8.3 CONTROL BANDING: No data available.

8.4 ENGINEERING CONTROLS:

ENGINEERING CONTROLS: Special ventilation is not normally required when using this product in normal

use scenarios. However, in the operation of certain equipment, at elevated temperatures, or in confined spaces mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that

does not cause irritation.

8.5 INDIVIDUAL PROTECTION MEASURES:

EYE & FACE PROTECTION: Wear safety glasses/goggles to avoid eye contact when handling. If there is a

risk of splashing during use, a full face shield is recommended. Use eye

protection in accordance with AS 1336 and AS 1337.

SKIN (HAND) PROTECTION: If there is the chance of contact with the material wear gloves to provide hand

protection. Rubber, Neoprene or PVC gloves are recommended.

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SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION Cont'd

SKIN (CLOTHING)

PROTECTION: During normal operating procedures, long sleeved clothing is recommended to

avoid skin contact. Soiled clothing should be washed with detergent prior to re-

use.

RESPIRATORY PROTECTION: During routine operation a respirator is not required. However, if mists or

vapours are generated, an approved half face organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS

1716.

THERMAL PROTECTION: Not applicable.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Amber liquid. (Milky white emulsion when diluted with water.)

ODOUR: Characteristic lubricating oil odour.

ODOUR THRESHOLD: No data available. Typically 9.1 at 20°C. pH (2% solution): MELTING/FREEZING POINT: Not applicable. **INITIAL BOILING POINT:** No data available. **BOILING RANGE (°C):** No data available. FLASHPOINT (°C): Typically 168°C. No data available. **EVAPORATION RATE:** FLAMMABILITY LIMITS (%): No data available. VAPOUR PRESSURE (mmHq): No data available. No data available.

VAPOUR DENSITY: No data available. DENSITY (g/mL @ 15°C): Typically 0.897.

SOLUBILITY IN WATER(g/L): Miscible with water. Forms a milky white emulsion in water.

PARTITION COEFFICIENT: No data available for n-octanol/water.

AUTO-IGNITION TEMP (°C): No data available.

DECOMPOSITION TEMP (°C): No data available.

VISCOSITY (cst @ 100°C): No data available.

VISCOSITY (cst @ 40°C): Typically 39.

SECTION 10 - STABILITY AND REACTIVITY

10.1 REACTIVITY: The product does not pose any further reactivity hazards other than those listed

in the following sub-sections.

10.2 CHEMICAL STABILITY: Stable under recommended storage and handling conditions (see section 7).

10.3 POSSIBILITY OF

HAZARDOUS REACTIONS: Keep away from strong oxidising agents, such as strong acids, chlorates,

nitrates and peroxides. Hazardous polymerisation does not occur.

10.4 CONDITIONS TO AVOID: Observe the usual precautionary measures for handling chemicals. Do not heat

the container or leave the container open when not in use. Avoid sources of

ignition.

10.5 INCOMPATIBLE

MATERIALS: Strong acids, strong oxidising agents, sodium nitrite or products containing it.

10.6 HAZARDOUS DECOMPOSITION

PRODUCTS: Hazardous decomposition products are not expected to form during normal

storage requirements. See Section 5.2 for Hazardous Combustion products.

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SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

There is no data available for the product as a whole. However, based upon calculated values the manufacturer has nominated the following for the product:

Oral - LD₅₀ (Rat): >2000 mg/kg Dermal - LD₅₀ (Rabbit): >2000 mg/kg

Ethanol, 2-(2-butoxyethoxy)- (Butyl Diglycol)

Oral - LD_{50} (Rat): >2000 mg/kg bw Dermal - LD_{50} (Rat): >2000 mg/kg bw

Carbamic acid, butyl-, 3-iodo-2-propynyl ester (lodocarb) (IMAP)

Oral - LD_{50} (Rat): 1100-1795 mg/kg bw Dermal - LD_{50} (Rat): >2000 mg/kg bw Inhalation - LC_{50} (Rat, dust): 0.68 mg/L Inhalation - LC_{50} (Rat, aerosol): 0.78 mg/L

Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts (IMAP – Data for Sodium Salts of Linear Alkylbenzene Sulfonates)

Oral - LD₅₀ (Rat): 404-1470 mg/kg bw Oral - LD₅₀ (Mice): 1250-2300 mg/kg bw Dermal - LD₅₀ (Rat): >2000 mg/kg bw

11.2 SWALLOWED:

The Carbamic acid, butyl-, 3-iodo-2-propynyl ester (Iodocarb) component means this is a Schedule 5 Poison. This product is expected to have a low order of toxicity associated with it when ingested. It may cause slight irritation to the mouth, throat and digestive tract. This product contains components that are rated as Harmful if swallowed, however these are present at amounts well below the Concentration cut-off levels. During normal usage ingestion should not be a means of exposure.

11.3 SKIN CORROSION/ IRRITATION:

This product is not expected to exhibit Dermal Corrosivity/Irritation according to OECD Test 404, based on the available data and the known hazards of the components. May be mildly irritating to the skin. This product contains components that are rated as Causes severe skin burns and May cause skin irritation, however based upon the data supplied by the manufacturer these are below the cut-off levels where they would cause the product to be rated. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation. People with pre-existing skin conditions, such as dermatitis, should take extreme care so as not to exacerbate the condition.

11.4 SERIOUS EYE DAMAGE/

IRRITATION:

The product is rated as Causes serious eye irritation. Symptoms may include localised burning, redness and tearing. Correct handling procedures incorporating appropriate eye protection should minimise the risk of eye irritation.

11.5 RESPIRATORY OR SKIN SENSITISATION:

This product is not expected to be a skin sensitiser according to OECD Test 406, based on the available data and the known hazards of the components. However, it contains a carbamic acid, butyl-, 3-iodo-2-propynyl ester (lodocarb) component that is rated as May cause an allergic skin reaction, however this is present at <1% in the final product. This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

11.6 GERM CELL MUTAGENICITY:

This product is not expected to be mutagenic according to tests such as OECD Tests 471, 475, 476, 478 and 479, based on the available data and the known hazards of the components.

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SECTION 11 – TOXICOLOGICAL INFORMATION Continued

11.7 CARCINOGENICITY:

This product is not expected to be a carcinogen according to OECD Test 451, based on the available data and the known hazards of the components. Long term animal experiments have shown that any health risks are associated with the level of aromatic and polycyclic constituents in the product. These constituents are removed during the manufacturing process to a level at which no health risks are expected as a result of normal handling. Representative testing of the Base Oils used to manufacture lubricants shows that they pass IP-

11.8 REPRODUCTIVE TOXICITY:

This product is not expected to be a reproductive hazard according to tests such as OECD Tests 414 and 421, based on the available data and the known hazards of the components.

11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) -

SINGLE EXPOSURE:

This product is not expected to cause organ damage from a single exposure, based on the available data and the known hazards of the components. This product is not expected to pose an irritation hazard at ambient temperature or under normal handling conditions. This product contains components that are rated as Toxic if inhaled and May cause respiratory irritation, however these are present at amounts well below the Concentration cut-off levels. Not classified as a respiratory irritant, however inhalation of vapours or mist (generated at elevated temperatures or by mechanical action) may cause irritation to the nose, throat and respiratory system.

11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) -

REPEATED EXPOSURE:

This product is not expected to cause organ damage from prolonged or repeated exposure according to tests such as OECD Tests 410 and 412, based on the available data and the known hazards of the components.

11.11 ASPIRATION HAZARD: This product is not expected to be an aspiration hazard, based on the available data and the known hazards of the components. However, as the product is hydrocarbon based and of comparatively low viscosity, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects.

11.12 OTHER INFORMATION: Used oils may contain harmful impurities that can accumulate during usage. Due to the use of oils in different types of equipment the types of impurities that accumulate during its usage are unknown. Therefore, all used oils should be handled with caution and skin contact should be avoided by wearing suitable gloves, such as those made of nitrile rubber.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY:

There is no data available for the product as a whole. The carbamic acid, butyl-, 3-iodo-2-propynyl ester component has been rated as Very toxic to aquatic life, however this is present at <1% in the final product. Based upon the calculated values the product is not expected to be rated. The undiluted product should not be allowed to enter drains, sewers and watercourses. The product will form an emulsion when released to water. This may lead to a depletion of the oxygen supply to bottom dwelling organisms. The product contains small amounts of boron. Water soluble borates occur naturally in soil and the sea. Boron is an essential micronutrient for plants, however it is phytotoxic in high concentrations.

12.2 PERSISTENCE & **DEGRADABILITY:**

The component ingredients vary from slowly to readily biodegradable. The major component is a petroleum distillate that when tested by methods CEC L-33-A-93 and OECD 301B was found to have limited ready biodegradability. The product contains mineral oil which has limited biodegradability in CEC test methods but will biodegrade slowly in aerobic water sediments and is considered ultimately biodegradable. The product is based on highly refined mineral oils that are considered stable to hydrolysis. Product is used as a dilute emulsion. It is inherently biodegradable.

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SECTION 12 – ECOLOGICAL INFORMATION Continued

12.3 BIOACCUMULATIVE

POTENTIAL:

The product will emulsify when introduced into water and some of the components will solubilise in water. The petroleum distillate component has a potential to bioaccumulate as its physical properties and slow rate of biodegradation suggest that the mineral oil could interfere with ecological cycles. Areas contaminated by such components could be slow to recover.

12.4 MOBILITY IN SOIL:

The product will disperse as an emulsion in water. If released on land, small quantities will be absorbed in the upper soil layers where biodegradation may take place. Larger quantities may penetrate into anaerobic soil layers where mineral oils and some other organic materials may persist. Many of the components have a high soil absorption coefficient which should help to prevent significant contamination of ground water.

12.5 OTHER ADVERSE

EFFECTS:

No information available. If released into the water, the product will disperse as

an emulsion.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 DISPOSAL METHODS: PRODUCT:

The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. The product is also suitable for incineration at very high temperatures to prevent formation of undesirable combustion products. Spilled product that cannot be recovered should be absorbed and then shovelled into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Follow Government regulations for disposal of such waste. Do not mix new or used lubricating oils with solvents, brake fluids or coolants when disposing. All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations.

CONTAINERS:

Empty containers may contain residual oil. They should be completely drained and then stored until reconditioned or disposed of. Empty drums should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. Where the containers are of metal construction they should not be pressurised, cut by a grinder, welded, brazed, soldered, drilled or exposed to heat, flames or other sources of ignition. Closed metal containers when exposed to such conditions/treatment may explode causing serious injury or death.

SECTION 14 – TRANSPORT INFORMATION

This product is not regulated for land, sea or air transportation. (HS Code: 2710.19.43)

14.1 LAND (ADG Code):

UN NUMBER: Not applicable

UN PROPER SHIPPING

NAME: Not applicable

TRANSPORT HAZARD

CLASS(ES): Not applicable PACKAGING GROUP: Not applicable

ENVIRONMENTAL

HAZARDS: Not applicable

SPECIAL PRECAUTIONS

FOR USER: Not applicable HAZCHEM CODE: Not applicable

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SAFETY DATA SHEET

SECTION 14 – TRANSPORT INFORMATION Continued

14.2 SEA (IMDG):

UN NUMBER: Not applicable

UN PROPER SHIPPING

NAME: Not applicable

TRANSPORT HAZARD

CLASS(ES): Not applicable PACKAGING GROUP: Not applicable

ENVIRONMENTAL

HAZARDS: Not applicable

SPECIAL PRECAUTIONS

FOR USER: Not applicable

14.3 AIR (IATA):

UN NUMBER: Not applicable

UN PROPER SHIPPING

NAME: Not applicable

TRANSPORT HAZARD

CLASS(ES): Not applicable PACKAGING GROUP: Not applicable

ENVIRONMENTAL

HAZARDS: Not applicable

SPECIAL PRECAUTIONS

FOR USER: Not applicable

SECTION 15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

APPLICABLE REGULATIONS:

SUSMP: Schedule 5 (S5).

AICS:
MONTREAL PROTOCOL:
STOCKHOLM CONVENTION:
ROTTERDAM CONVENTION:
BASEL CONVENTION:

All ingredients are on the AICS List.
Not applicable to this product.
Not applicable to this product.
Not applicable to this product.

INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM

SHIPS (MARPOL): Not determined.

OTHER REGULATORY INFORMATION:

GHS CLASSIFICATION HAZARD CLASS & CATEGORY

AND HAZARD STATEMENT: Acute Toxicity - Oral Category 4; H302 - Harmful if swallowed.

Aspiration Hazard Category 1; H304 - May be fatal if swallowed and enters

airway.

Skin Corrosion/Irritation Category 1B; H314 - Causes severe skin burns and

eye damage.

Skin Corrosion/Irritation Category 2; H315 - Causes skin irritation.

Sensitisation - Skin Category 1; H317 - May cause an allergic skin reaction. Serious Eye Damage/Irritation Category 1; H318 - Causes serious eye damage. Serious Eye Damage/Irritation Category 2A; H319 - Causes serious eye

irritation.

Acute Toxicity - Inhalation Category 3; H331 - Toxic if inhaled.

Specific Target Organ Toxicity (Single Exposure) Category 3; H335 - May

cause respiratory irritation.

Acute Aquatic Toxicity Category 1; H400 - Very toxic to aquatic life.

HSNO APPROVAL NUMBER: HSR002606.

HSNO GROUP TITLE: Lubricants, Lubricant Additives, Coolants and Anti-Freeze Agents (Subsidiary

Hazard) Group Standard, 2006.

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SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION:

Date of SDS Preparation: 29th July 2016 Revision: 3.2

REVISION CHANGES: Changes to supplier information and addition of HSNO number in Section 1.

ACRONYMS:

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

CAS Number Chemical Abstracts Service Registry Number

EINECS European Inventory of Existing Commercial Chemical Substances

UN Number United Nations Number

OSHA Occupational Safety and Health Administration

ACGIH American Conference of Governmental Industrial Hygienists

IMDG International Maritime Dangerous Goods IATA International Air Transport Association

IUCLID International Uniform Chemical Information Database RTECS Registry of Toxic Effects of Chemical Substances

%W/W Percent weight for weight

OECD Organisation for Economic Co-Operation and Development

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

HAZCHEM Code Emergency action code of numbers and letters which gives information to emergency services

NOHSC National Occupational Health and Safety Commission

AICS Australian Inventory of Chemical Substances

TWA Time-Weighted Average STEL Short term Exposure Limit

HSNO Hazardous Substances and New Organisms Act 1996

GHS Globally Harmonised System of Classification and Labelling of Chemicals

WHS Work Health and Safety
PPE Personal Protective Equipment.

LITERATURE REFERENCES AND SOURCES OF DATA:

OECD Guidelines for Testing of Chemicals

Annex I: OECD Test Guidelines for Studies Included in SIDS

Manual for the Assessment of Chemicals Chapter 2 Data Gathering

International Toxicity Testing Guidelines

Hazardous Substance Information System - Guidance Material for Hazard Classifications

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Model Work Health and Safety Regulations.

Model Work Health and Safety Regulations - Transitional Principles

Workplace Exposure Standards for Airborne Contaminants

Australian Dangerous Goods Code 7th Edition

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)] Guidance on the Classification of Hazardous Chemicals under the WHS Regulations

Assigning a Hazardous Substance to a Group Standard

User Guide to the HSNO Thresholds and Classifications

Summary User Guide to the HSNO Thresholds and Classifications of Hazardous Substances

Correlation between GHS and New Zealand HSNO Hazard Classes and Categories

HSNO Control Regulations

Record of Group Standard Assignment

Labelling of Hazardous Substances Hazard and Precautionary Information

Thresholds and Classifications Under the Hazardous Substances and New Organisms Act 1996

Workplace Exposure Standards and Biological Exposure Indices

NICNAS IMAP Human Health Tier II Assessment for Ethanol, 2-(2-butoxyethoxy)- CAS Number: 112-34-5 NICNAS IMAP Human Health Tier II Assessment for Carbamic acid, butyl-, 3-iodo-2-propynyl ester CAS

Number: 55406-53-6

NICNAS IMAP Human Health Tier II Assessment for Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts CAS Number: 68411-30-3

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