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# SAFETY DATA SHEET

**SECTION** 1 **IDENTIFICATION:** PRODUCT IDENTIFIER/CHEMICAL **IDENTITY** 

1.1 PRODUCT IDENTIFIER: Gear Oil 80W-90

1.2 PRODUCT CODE: GO8090

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

**RELEVANT IDENTIFIED USES:** Differential 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), 110-116 Greens Road, Dandenong South VIC, Australia, 3175 ADDRESS (Australia): **TELEPHONE NUMBER (Australia):** 1300 736 748: +61 3 8710 6600 (Int): Fax: 1800 736 748

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

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

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 2017.

# 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:

Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Chronic Aquatic Toxicity - Category 3

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

SIGNAL WORD: Warning

**PICTOGRAMS:** 

**HAZARD STATEMENTS:** H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

PREVENTION: P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands with soap and water thoroughly after handling.

P273 - Avoid release to the environment.

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

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

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

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# **SECTION 2 – HAZARD(S) IDENTIFICATION Continued**

**STORAGE:** Not Applicable.

**DISPOSAL:** P501 - Dispose of contents/container in accordance with local regulations.

2.3 OTHER HAZARDS: Excessive exposure may result in mild irritation to the respiratory system. The

product contains an Amines, C12-14-tert-alkyl component. 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*
Severely treated base oils Methacrylate copolymer 9-Octadecen-1-amine, (Z)-	Proprietary 112-90-3	> 90% < 1.7% < 0.5%	Not Applic Eye Irrit 2A - H319 Acut Tox 4 - H302 Asp Haz 1 - H304 Skin Corr 1B - H314 STOT SE 3 - H335 STOT RE 2 - H373 Chron Aq Tox 1 - H410
Amines, N-(C14-18 and C16-18-unsaturat alkyl) trimethylenedi-	ed 68439-73-6	< 0.4%	Acut Tox 4 - H302 Skin Corr 1B - H314 Acute Aq Tox 1 - H400
Phosphoric acid, bis(2-ethylhexyl) ester [Alkyl phosphate]	298-07-7	< 0.4%	Acut Tox 4 - H302 Skin Corr 1B - H314 Chron Aq Tox 3 - H412
Phosphoric acid, mono(2-ethylhexyl) ester [Alkyl phosphate]	1070-03-7	< 0.3%	Skin Corr 1B - H314 STOT SE 3 - H335
1,3,4-Thiadiazole, 2,5-bis(tert-nonyldithio)- Phosphoric acid, dipentyl ester	89347-09-1	< 0.25%	Chron Aq Tox 3 - H412
[Alkyl phosphate]	3138-42-9	< 0.25%	Skin Corr 1B - H314 Chron Aq Tox 3 - H412
Long-chain alkyl phosphonate Amines, C12-14-tert-alkyl	Proprietary 68955-53-3	< 0.25% < 0.25%	Chron Aq Tox 4 - H413 Flam Liq 4 - H227 Acut Tox 4 - H302 Acut Tox 3 - H311 Skin Corr 1B - H314 Skin Sen 1 - H317 Acut Tox 2 - H330 STOT SE 3 - H335 Chron Aq Tox 1 - H410
Phosphoric acid, monopentyl ester [Alkyl phosphate]	2382-76-5	< 0.25%	Skin Corr 1B - H314 Chron Aq Tox 3 - H412
Phosphonic acid, bis(2-ethylhexyl) ester	3658-48-8	< 0.2%	Skin Irrit 2 - H315 Eye Irrit 2 - H319 STOT SE 3 - H335
Phosphoric acid, bis(2-ethylhexyl) ester	298-07-7	< 0.2%	Acut Tox 4 - H302 Skin Corr 1 - H314
Complex mixture of additives	-	To 100%	Not Applic

Not Applic = Not Applicable \* Please see Section 15 of this SDS for the 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:

Rinse mouth out with water. Due to the blend of ingredients present, the manufacturer recommends that if swallowed, do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. If 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 eye 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. As the product is a skin irritant, if skin 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

No personnel shall place themselves in a situation that is potentially hazardous to themselves. As the product is hydrocarbon based, if the person has ingested the product, do not use direct mouth-to-mouth 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:

AIDERS:

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

respiratory tract. Ingestion may lead to nausea and diarrhoea

**CHRONIC:** Skin contact may aggravate/exacerbate existing skin conditions, such as

dermatitis. The product contains an Amines, C12-14-tert-alkyl component. This

may produce an allergic reaction.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

**ADVICE TO DOCTOR:** 

Treat symptomatically. As the product is hydrocarbon based, 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.

### 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.

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### **SECTION 5 – FIRE FIGHTING MEASURES Continued**

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

**COMBUSTION HAZARDS:** Combustion may produce oxides of carbon, nitrogen, sulphur and phosphorus,

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 216°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 Nitrile 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 has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsings to enter drains, surface water, sewers or water

courses.

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#### SECTION 7 -HANDLING AND STORAGE, INCLUDING HOW 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. Keep 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 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.

**INCOMPATIBILITIES:** Oxidising 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. However, in the operation of certain equipment or at elevated temperatures, if oil mists or aerosols are generated the following Exposure Standard should be observed:

TWA:  $5 \text{ mg/m}^3$ 

10 mg/m<sup>3</sup> (ACGIH) STEL:

**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 eve

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. Nitrile rubber gloves are recommended.

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.

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### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 PHYSICAL AND CHEMICAL PROPERTIES: APPEARANCE:**Viscous blue liquid.

ODOUR: Characteristic lubricating oil odour.

ODOUR THRESHOLD: No data available. pH: Not applicable. MELTING/FREEZING POINT: Not applicable.

MELTING/FREEZING POINT: Not applicable.

INITIAL BOILING POINT: No data available.

BOILING RANGE (°C): No data available.

FLASHPOINT (°C): Typically 216°C.

EVAPORATION RATE: No data available.

FLAMMABILITY LIMITS (%): No data available.

VAPOUR PRESSURE (mmHg): No data available.

VAPOUR DENSITY: No data available.

VAPOUR DENSITY: No data available.

Typically 0.889.

SOLUBILITY IN WATER(g/L): Insoluble 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): Typically 15.6.

VISCOSITY (cSt @ 40°C): Typically 145.

#### 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 oxidising agents including concentrated acids.

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.

### **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

The product is a mixture and test data is not available for the product as a whole.

9-Octadecen-1-amine, (Z)-Oral - LD<sub>50</sub> (Rat): 1689 mg/kg

1,3,4-Thiadiazole, 2,5-bis(tert-nonyldithio)-

Oral -  $LD_{50}$  (Rat): >10000 mg/kg Dermal -  $LD_{50}$  (Rabbit): >2000 mg/kg

Inhalation - LC<sub>50</sub> (Rat, vapour, 4 hour): >2750 mg/m<sup>3</sup>

Alkyl phosphate

Oral -  $LD_{50}$  (Rat): 1400 mg/kg Dermal -  $LD_{50}$  (Rabbit): >2000 mg/kg

Long-chain alkyl phosphonate Oral - LD<sub>50</sub> (Rat): 9050 mg/kg

Dermal - LD<sub>50</sub> (Rabbit): >20000 mg/kg

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### SECTION 11 - TOXICOLOGICAL INFORMATION Continued

Amines, C12-14-tert-alkyl Oral - LD<sub>50</sub> (Rat): 612 mg/kg

Dermal - LD<sub>50</sub> (Rat): 251 mg/kg

Inhalation - LC<sub>50</sub> (Rat (female), vapour, 4 hour):1.19 mg/m<sup>3</sup>

Alkyl phosphate

Oral - LD<sub>50</sub> (Rat): 2710 mg/kg

Phosphonic acid, bis(2-ethylhexyl) ester

Oral - LD<sub>50</sub> (Rat): 11900 mg/kg Dermal - LD<sub>50</sub> (Rabbit): 4500 mg/kg

Phosphoric acid, bis(2-ethylhexyl) ester

Oral - LD<sub>50</sub> (Rat): 4940 mg/kg Dermal - LD<sub>50</sub> (Rabbit): 1250 µg/kg

11.2 SWALLOWED:

This product is expected to have a low order of toxicity associated with it when ingested. It contains components that are rated as Harmful if swallowed, however these are present at amounts well below the Concentration cut-off levels where the product would be rated. The product may cause irritation to the mouth, throat and digestive tract. During normal usage ingestion should not be a means of exposure.

11.3 SKIN CORROSION/ IRRITATION:

This product is rated as Causes skin irritation, based upon the information supplied by the additive package manufacturers. Prolonged or repeated contact may cause defatting of the skin which may lead to dermatitis. 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, based upon the information supplied by the additive package manufacturers. 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 based on the available data and the known hazards of the components. The product contains an Amines, C12-14-tert-alkyl component. This is rated as May cause an allergic skin reaction, however it is present at <0.25% 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 based on the available data and the known hazards of the components.

11.7 CARCINOGENICITY:

This product is not expected to be a carcinogen 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-346.

11.8 REPRODUCTIVE **TOXICITY:** 

This product is not expected to be a reproductive hazard based on the available data and the known hazards of the components.

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### SECTION 11 – TOXICOLOGICAL INFORMATION Continued

#### 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. 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. This product contains components that are rated as May cause respiratory irritation and Fatal if inhaled, however these are present at amounts well below the Concentration cut-off levels.

#### 11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) -

REPEATED EXPOSURE:

This product is not expected to cause organ damage from prolonged or repeated exposure based on the available data and the known hazards of the components. This product contains a component that is rated as May cause damage to organs through prolonged or repeated exposure, however this is present at amounts well below the Concentration cut-off levels.

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, 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: The manufacturer nominates the following Ecotoxicity data:

> Phosphoric acid, bis(2-ethylhexyl) ester LC<sub>50</sub> (Oncorhynchus mykiss, 96h, static): 20 mg/l

EC<sub>50</sub> (Daphnia magna, 48h): 80.3 mg/l

9-Octadecen-1-amine, (Z)-LC<sub>50</sub> (Fish, 96h): 0.11 mg/l

EC<sub>50</sub> (Daphnia magna, 48h): 0.011 mg/l

EC<sub>50</sub> (Algae, 96h): 0.03 mg/l

There is no data available for the product as a whole. Some of the components have been rated as Very toxic to aquatic life with long lasting effects, Harmful to aquatic life with long lasting effects and May cause long lasting harmful effects to aquatic life. Based upon the nominated values the product is expected to be rated as Harmful to aquatic life with long lasting effects.

12.2 PERSISTENCE & **DEGRADABILITY:** 

Based on the available data and the known hazards of the components and similar products the product is not expected to be readily biodegradable. Major constituents are expected to be inherently biodegradable, however the product contains components that may persist in the environment.

12.3 BIOACCUMULATIVE **POTENTIAL:** 

No information is available.

12.4 MOBILITY IN SOIL:

If the product enters soil, based upon similar products it is expected that it will adsorb onto soil particles and will not be mobile.

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### **SECTION 12 – ECOLOGICAL INFORMATION Continued**

12.5 OTHER ADVERSE

**EFFECTS:** 

Based on the available data and the known hazards of the components and similar products the product is not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. The product is a mixture of non-volatile components, which are not expected to be released to the air in any significant amounts. The product will float on water.

## **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. If this is not possible, the product is suitable for burning in an enclosed burner where it can be used as a fuel source. 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: 2710.19.91)

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

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

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#### SECTION 14 – TRANSPORT INFORMATION Continued

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: Not scheduled.

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: Flammable Liquids Category 4; H227 - Combustible liquid.

Acute Toxicity - Oral Category 4; H302 - Harmful if swallowed.

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

airway.

Acute Toxicity - Dermal Category 3; H311 - Toxic in contact with skin.

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 2A; H319 - Causes serious eye

irritation.

Acute Toxicity - Inhalation Category 2; H330 - Fatal if inhaled.

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

cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure) Category 2; H373 - May

cause damage to organs through prolonged or repeated exposure. Acute Aquatic Toxicity Category 1; H400 - Very toxic to aquatic life.

Chronic Aquatic Toxicity Category 1; H410 - Very toxic to aquatic life with long

lasting effects.

Chronic Aquatic Toxicity Category 3; H412 - Harmful to aquatic life with long

lasting effects.

Chronic Aquatic Toxicity Category 4; H413 - May cause long lasting harmful effects to aquatic life.

HSNO APPROVAL NUMBER: HSR002606.

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

Hazard) Group Standard 2017.

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# SAFETY DATA SHEET

#### SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION:

Date of SDS Preparation: 7<sup>th</sup> August 2018 Revision: 2.0

**REVISION CHANGES:** Changes to product formulation. Changes to Sections 2, 3, 5, 9, 11, 15 and 16.

**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 HSE-WEL Health and Safety Executive - Workplace Exposure Limit

EH40 EH40/2005 Workplace Exposure Limits
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

NICNAS National Industrial Chemicals Notification & Assessment Scheme

IMAP Inventory Multi-Tiered Assessment and Prioritisation

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.

LD<sub>50</sub> Median Lethal Dose

NOAEL

LC<sub>50</sub> Median Lethal Concentration

EC<sub>50</sub> Effective Concentration of a substance that causes 50% of the maximum response after

exposure for a nominated time
No Observed Adverse Effect Level
No Observed Effect Concentration

NOEC No Observed Effect Concentra ECHA European Chemicals Agency

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

HCIS Hazardous Chemical Information System

#### 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 Chemical Information System (HCIS) - 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** 

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# SAFETY DATA SHEET

#### SECTION 16 – ANY OTHER RELEVANT INFORMATION Continued

#### LITERATURE REFERENCES AND SOURCES OF DATA (Continued):

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 Primary Aliphatic (C12-22) and Fatty Amines including

CAS Number: 112-90-3

All information contained in this Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

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