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SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: DOT 3 Brake Fluid

1.2 PRODUCT CODE: DOT3

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

RELEVANT IDENTIFIED USES: Brake fluid. 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: 88 Lewis Road, Wantirna South, Victoria, 3152

E-MAIL: penrite@penriteoil.com

TELEPHONE NUMBER: 03 9801 0877

1.5 EMERGENCY TEL. NUMBER: 1300 736 748

SECTION 2 - HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

NOHSC 1008: This product is a mixture and is classified as Hazardous according to the

criteria of the National Occupational Health and Safety Commission (SafeWork

Australia).

Xi - Irritant

Risk Phrases: R36 - Irritating to eyes.

Safety Phrases: S2 - Keep out of reach of children.

S25 - Avoid contact with eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or

lahel

S60 - This material and its container must be disposed of as hazardous waste.

GHS CLASSIFICATION HAZARD

CLASS & CATEGORY: The product is a mixture and has not been assessed under the Model Work

Health and Safety Regulations. Data have been provided for the individual

components.

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

SIGNAL WORD: There is no Signal Word at this stage for the mixture.

HAZARD STATEMENTS:

There are no Hazard Statements at this stage for the mixture.

PRECAUTIONARY

STATEMENTS: There are no Precautionary Statements at this stage for the mixture.

2.3 OTHER HAZARDS: The mixture has a moderate order of toxicity associated with it. The product is

irritating to eyes. Excessive exposure may result in mild irritation to skin or the respiratory system. The product contains glycols; when ingested they may be adsorbed and cause renal damage at high doses. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this

material.

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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration	Risk	GHS
		% W/W	Phrases*	Classification
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	143-22-6	20% - < 30%	R41	Eye Dam Cat 1 - H318
Ethanol, 2,2'-oxybis-	111-46-6	2.5% - < 25%	R22	Acute Tox Cat 4 - H302
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	< 5%	R63	Tox Repro Cat 2 - H361
Complex mixture of additives	-	To 100%	Not Applic	Not assessed

Not Applic = Not Applicable

SECTION 4 – FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION: Rinse mouth out and drink plenty of water. Due to the presence of glycols in the

product, do NOT induce vomiting except under medical supervision. After ingesting the material a person should seek urgent medical assistance taking

this MSDS with you.

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 under supervision. After flushing, it is recommended that

you seek medical assistance taking the MSDS with you.

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.

PROTECTION FOR FIRST

AIDERS: No personal shall place themselves in a situation that is potentially hazardous to

themselves. 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.

4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:

ACUTE:

The product is an eye irritant. Eye contact may lead to localised burning, redness and tearing. Ingestion or inhalation of vapours generated during use may lead to irritation of the mouth and respiratory tract. The product contains glycols; when ingested they may be adsorbed and cause renal damage at high

doses. Skin contact may lead to redness or itching.

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

dermatitis. One of the glycols, present below its Cut-off Value, is rated as R63 -

Possible risk of harm to the unborn child.

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

ADVICE TO DOCTOR:

This product contains small amounts of ethanol, 2,2'-oxybis- (also known as diethylene glycol) as well as other glycols. Glycols, including diethylene glycol can be metabolised to toxic metabolites. The Poisons Information Centre should be contacted for information on how to deal with glycol ingestion.

^{*} Please see Section 16 of this SDS for full text of the Risk Phrases

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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,

alcohol - resistant foam, dry chemical or water fog. 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. Product is miscible with water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Combustion may produce oxides of carbon, smoke and irritating vapours.

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: This product is not flammable under conditions of use. Is a combustible liquid

that will burn if preheated. 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. Do not cut, weld, drill or pressurise empty metal containers.

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 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 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 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. Avoid breathing mists or vapours that may be generated in the operation of certain equipment or at elevated temperatures. Prevent small spills and leakage to avoid slip 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 glycol-based liquid that will burn if preheated. Store in a well ventilated area away from direct sunlight, ignition sources, strong 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. Glycols can absorb moisture from the atmosphere so ensure containers are tightly closed.

INCOMPATIBILITIES: Strong oxidising substances including strong acids and mineral oils.

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 mists are generated the manufacturer recommends the following Exposure Standards:

Total Vapour, Time Weighted Average (TWA): 100 mg/m³ 10 mg/m³ Total Particulate, Time Weighted Average (TWA):

The product contains ethanol, 2,2'-oxybis- (also known as diethylene glycol):

Time Weighted Average (TWA): 23ppm; 100 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. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard.

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

Polyethylene, natural or butyl rubber and PVC gloves are protection.

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.

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SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION Cont'd

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: Clear liquid.

ODOUR: Bland, characteristic mild glycol odour.

ODOUR THRESHOLD: No data available. 7.0 to 11.5. **MELTING/FREEZING POINT:** < -50°C. **INITIAL BOILING POINT:** > 205°C.

BOILING RANGE (°C): No data available.

FLASHPOINT (°C): > 80°C.

EVAPORATION RATE: Negligible.

FLAMMABILITY LIMITS (%): No data available.

VAPOUR PRESSURE (mmHg): < 2 millibars at 20°C.

VAPOUR DENSITY: No data available.

Typically 1.01 to 1.07.

SOLUBILITY IN WATER(q/L): Fully soluble in water.

PARTITION COEFFICIENT: < 2.0 (all main ingredients) n-octanol/water.

AUTO-IGNITION TEMP (°C): > 300°C.

DECOMPOSITION TEMP (°C): No data available. **VISCOSITY (cSt @ 100°C):** Typically 2.2. **VISCOSITY (cSt @ 20°C):** Typically 5 to 10.

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 as well as isocyanates and mineral oils. 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: Glycol ethers can form peroxides on storage - do not distil the product to

dryness. See Section 5.2 for Hazardous Combustion products.

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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.

11.2 ACUTE TOXICITY:

SWALLOWED: This product is expected to have a low order of toxicity associated with it when

small amounts are accidentally ingested. The product contains a glycol component that is rated as R22 - Harmful if swallowed, however this is present at amounts below the Concentration cut-off level. Caution: due to the presence of glycols, if a significant amount is ingested there is a risk of renal damage which in extreme cases could lead to kidney failure, coma and death. Based upon assessment of similar products, the Acute Oral Toxicity is expected to be LD_{50} (rat) >5000 mg/kg. The manufacturer states that the lethal dose in man could be considerably less. During normal usage ingestion should not be a

means of exposure.

EYE: Based upon Test Method OECD 405 the product is irritating to the eyes.

Symptoms may include localised burning, redness and tearing. Correct handling procedures incorporating appropriate eye protection should minimise the risk of

eye irritation.

SKIN: May be mildly irritating to the skin. 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. The Acute

percutaneous toxicity is low with LD_{50} (Rat) > 2000 mg/kg.

INHALED: No data to indicate a toxic inhalation hazard. Based upon assessment of similar

products, the Acute Inhalation Toxicity is expected to be LC₅₀ (rat, 4 hours) >5000 mg/m³ when tested against OECD Guideline 403 or similar. Negligible irritation hazard at ambient temperature or under normal handling conditions. Inhalation of vapours or mist (generated at elevated temperatures or by mechanical action) may cause irritation to the nose and throat and may cause

systemic effects similar to ingestion.

11.2 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.

11.3 SERIOUS EYE DAMAGE/

IRRITATION: Based on the available data and the known hazards of the components, this

product is rated as R36 - Irritating to eyes.

11.4 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. This product is not expected to be a respiratory tract sensitiser, based on the

available data and the known hazards of the components.

11.5 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.

11.6 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.

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SECTION 11 – TOXICOLOGICAL INFORMATION Continued

11.7 REPRODUCTIVE TOXICITY:

This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components. One of the components, Ethanol, 2-(2-methoxyethoxy)- (also known as methyl diglycol or diethylene glycol monomethyl ether) has been shown to affect foetus development in some studies and has been rated as Substances Toxic to Reproduction, Category 3; R63 - Possible risk of harm to the unborn child. However, this is present at levels below the nominated cut-off levels.

11.8 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.

11.9 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.

11.10 ASPIRATION HAZARD: This product is not expected to be an aspiration hazard, based on the available

data and the known hazards of the components. It is suggested that if vomiting has occurred after ingestion, the patient should be monitored for adverse

effects.

11.11 OTHER INFORMATION: The product contains ethanol, 2,2'-oxybis- (also known as diethylene glycol) as

well as other glycols. Glycols, including diethylene glycol can be metabolised to toxic metabolites. The Poisons Information Centre should be contacted for

information on how to deal with alvcol ingestion.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 ECOTOXICITY: The product is expected to have low acute ecotoxicity. The LC50 (Fish -

Oncorhynchus mykiss, 96hr): > 100mg/L; EC50 (Daphnia, 48hr): Not determined, however expected to be virtually non-toxic; and, EC50 (Algae,

72hr): Not determined, however expected to be virtually non-toxic.

12.2 PERSISTENCE &

DEGRADABILITY: The product is expected to be readily biodegradable. The OECD 302B (Zahn

Wellans/EMPA) = 100% elimination at 21 days.

12.3 BIOACCUMULATIVE

POTENTIAL: The product is not expected to bioaccumulate. The Log Pow for all main

ingredients is < 2.0.

12.4 MOBILITY IN SOIL: The product is soluble in water and will partition into the aqueous phase.

Volatilisation from water to air is not expected. The product is expected to be

mobile in soil until degraded.

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 is miscible with water.

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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 brake fluid with solvents, lubricating oils 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 product. 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.

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

SPECIAL PRECAUTIONS

FOR USER: Not applicable

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SECTION 14 – TRANSPORT INFORMATION

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 6.

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:

RISK PHRASES [NOHSC:1008]:R22 - Harmful if swallowed.

R36 - Irritating to eyes.

R41 - Risk of serious damage to eyes.

R63 - Possible risk of harm to the unborn child.

GHS CLASSIFICATION HAZARD CLASS & CATEGORY

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

Eye Damage Category 1; H318 - Causes serious eye damage.

Toxic to Reproduction Category 2; H361 - Suspected of damaging fertility or the

unborn child.

SAFETY PHRASES

[NOHSC:1008]: S2 - Keep out of reach of children.

S25 - Avoid contact with eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or

label.

S60 - This material and its container must be disposed of as hazardous waste.

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SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION:

Date of SDS Preparation: 26th July 2012 Revision: 0.0

REVISION CHANGES: Initial preparation of SDS.

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

ACGIH American Conference of Governmental Industrial Hygienists

IUCLID International Uniform Chemical Information Database

R-Phrase Risk Phrases S-Phrase Safety Phrases

%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 giving 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

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

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.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.