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# SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: Copper Eze

1.2 PRODUCT CODE: CEZE

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

RELEVANT IDENTIFIED USES: Anti-seize grease. 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 not classified as Hazardous according to the

criteria of the National Occupational Health and Safety Commission (SafeWork

Australia).

**GHS CLASSIFICATION HAZARD** 

CLASS & CATEGORY: The product is a mixture and based upon the information as supplied is not

classified as hazardous under the Model Work Health and Safety Regulations.

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

**SIGNAL WORD:** There is no Signal Word.

**HAZARD STATEMENTS:** There are no Hazard Statements.

**PRECAUTIONARY** 

**STATEMENTS:** There are no Precautionary Statements.

2.3 OTHER HAZARDS: The mixture has a low order of toxicity associated with it. Excessive exposure

may result in mild irritation to the eye, skin or respiratory system. Prolonged or repeated skin contact without proper cleaning can clog pores of the skin resulting in disorders such as oil acne/folliculitis. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material. High pressure injection through the skin may cause serious damage including local necrosis. Contact with molten material will require treatment by

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a physician for burns.

### **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENTS	CAS NUMBER	Concentration	RISK	GHS
		% W/W	Phrases*	Classification
Residual oils, petroleum, solvent, dewaxe	ed 64742-62-7	> 60%	Not Applic	Not Applic
Copper fines	-	10% - < 30%	Not Applic	Not Applic
Complex mixture of additives	-	10% - < 30%	Not Applic	Not Applic

Not Applic = Not Applicable

<sup>\*</sup> Please see Section 16 of this SDS for full text of the Risk Phrases

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### **SECTION 4 – FIRST AID MEASURES**

#### 4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION:

Rinse mouth out with water. If a large quantity is ingested seek medical attention. It may be necessary to induce vomiting, taking extreme care that the person does not aspirate into the lungs. 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 under supervision. 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. High pressure injection through the skin requires urgent medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns. Leave the molten material on the skin for removal by the 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:

Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Eye contact may lead to localised burning, redness and tearing. Skin contact may lead to redness or itching. Caution: High pressure injection through the skin requires urgent medical attention for possible incision, irrigation and/or debridement. Caution: Contact with molten material will require treatment by a physician for burns. Leave the molten material on the skin for removal by the doctor.

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

dermatitis.

# **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 a symptomatically.

Treat symptomatically. As the product is hydrocarbon based, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. As high pressure injection entry points are usually small, surgical examination to determine the extent of the grease injection may be necessary. Local anaesthetics and hot compresses should be avoided as they may contribute to swelling, vasospasm and ischaemia.

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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 or dry chemical. 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 grease.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

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

sodium and zinc as well as smoke and irritating vapours.

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: This product is not flammable under conditions of use. Is a hydrocarbon-based,

> combustible semi-solid that will burn if preheated to decomposition. 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 PVC, Nitrile or neoprene gloves, glasses/goggles (or a face shield for high temperature or pressure operations), 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 bodysuit 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:** Spills are easy to contain because of the nature of the product. The material will

not flow unless heated.

**CLEANING PROCEDURES:** Shovel the product into metal containers. Follow local regulations for the

disposal of waste. For large spills, the material can be collected and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. 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. 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, combustible semi-solid that will burn if preheated. Store in a 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. Do not store in plastic containers unless approved for the application.

**INCOMPATIBILITIES:** Strong 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. However, if the

material is subjected to elevated temperatures, and oil mists or vapours are

generated the following Exposure Standard should be observed: TWA: 5 mg/m³ STEL: 10 mg/m³ (ACGIH)

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 the product

is used at elevated temperature/pressures, 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. Nitrile rubber, PVC or neoprene 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:** Greases may be used in elevated temperature applications. In these scenarios,

select gloves according to AS 2161.4 for appropriate temperature range.

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

9.1 PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Smooth, copper coloured grease.

ODOUR: Characteristic lubricating oil odour.

**ODOUR THRESHOLD:** No data available. Not applicable. :Ha Not applicable. **MELTING/FREEZING POINT:** No data available. INITIAL BOILING POINT: **BOILING RANGE (°C):** No data available. FLASHPOINT (°C): Typically > 200°C. No data available. **EVAPORATION RATE:** FLAMMABILITY LIMITS (%): No data available. VAPOUR PRESSURE (mmHg): No data available. **VAPOUR DENSITY:** No data available. DENSITY (q/mL @ 15°C): Typically 0.95.

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): No data available.

VISCOSITY (cSt @ 40°C): No data available.

### 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.

11.2 ACUTE TOXICITY:

**SWALLOWED:** 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. Based upon assessment of similar products, the Acute Oral Toxicity is expected to be  $LD_{50}$  (rat) >2000 mg/kg when tested against OECD Guideline 420 or similar. During normal usage ingestion should not be a means of exposure.

EYE: May be mildly 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.

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### SECTION 11 - TOXICOLOGICAL INFORMATION Continued

**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.

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

products, the Acute Inhalation Toxicity is expected to be  $LC_{50}$  (rat, 4 hours) >5000 mg/m<sup>3</sup> 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.

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: This product is not expected to exhibit Eye Irritation or Serious Damage/

Corrosivity according to OECD Test 405, based on the available data and the

known hazards of the components.

11.4 RESPIRATORY OR SKIN SENSITISATION:

TISATION: 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. 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.

11.7 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.

11.8 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. However, as the product is hydrocarbon based, if vomiting has occurred after ingestion, the patient should

be monitored for adverse effects.

11.11 OTHER INFORMATION: Used greases may contain harmful impurities that can accumulate during

usage. Due to the use of greases in different types of equipment the types of impurities that accumulate during its usage are unknown. Therefore, all used greases should be handled with caution and skin contact should be avoided by wearing suitable gloves, such as those made of Nitrile rubber, PVC or neoprene. High pressure injection under the skin may lead to local necrosis if

the product is not surgically removed.

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### SECTION 12 - ECOLOGICAL INFORMATION

12.1 ECOTOXICITY: There is no data available for the product as a whole. Based upon calculated

values, the overall product would not be expected to be rated.

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: The product is a semi-solid under normal environmental conditions and will float

on water. If it comes into contact with soil, it is expected to adsorb to soil

particles and will therefore not be mobile.

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 also suitable for incineration at very high temperatures to prevent formation of undesirable combustion products. Spilled product that cannot be recovered should be 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. 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 grease. They should be 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.

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### **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

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:
RISK PHRASES [NOHSC:1008]:Not applicable

SAFETY PHRASES

[NOHSC:1008]: Not applicable

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

**SDS INFORMATION:** 

Date of SDS Preparation: 11<sup>th</sup> July 2012 Revision: 3.0

**REVISION CHANGES:** Initial preparation of new SDS format.

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 An 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

#### 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 7<sup>th</sup> 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 Material 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.