



# SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

- 1.1 PRODUCT IDENTIFIER:** eIring DIRKO HT Red Sealant
- 1.2 PRODUCT CODE:** 07838302120
- 1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:**  
**RELEVANT IDENTIFIED USES:** Red Sealant for STIHL Chainsaw Cylinders.  
**RESTRICTIONS ON USE:** None known.
- 1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**  
**SUPPLIER NAME:** Stihl Pty Ltd (ABN: 76 004 881 145),  
**ADDRESS:** 5 Kingston Park Court, Knoxfield, Victoria, Australia, 3180  
9 Bishop Browne Place, East Tamaki, Auckland, New Zealand, 1730.  
**E-MAIL:** [csc@stihl.com.au](mailto:csc@stihl.com.au); [info@stihl.co.nz](mailto:info@stihl.co.nz)  
**TELEPHONE NUMBER:** +61 3 9215 6666 (NZ: +64 9262 4000)
- 1.5 EMERGENCY TEL. NUMBER:** (Poisons Information Centre (Aust 131 126; NZ 0800 764 766))
- 1.6 HSN0 DETAILS:**  
**HSNO APPROVAL NUMBER:** Not applicable.  
**HSNO GROUP TITLE:** Not applicable.

## SECTION 2 – HAZARD(S) IDENTIFICATION

- 2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:**  
**GHS CLASSIFICATION HAZARD**  
**CLASS & CATEGORY:** The product is a mixture and is not classified as Hazardous under the Model Work Health and Safety Regulations.
- 2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:**  
**SIGNAL WORD:** Not Applicable.  
**PICTOGRAMS:** Not Applicable.  
**HAZARD STATEMENTS:** Not Applicable.
- PRECAUTIONARY STATEMENTS:**  
**REVENTION:** Not Applicable.  
**RESPONSE:** Not Applicable.  
**STORAGE:** Not Applicable.  
**DISPOSAL:** Not Applicable.
- 2.3 OTHER HAZARDS:** The mixture has a low order of toxicity associated with it. Excessive exposure may result in mild irritation to the skin or respiratory system as well as possible irritation to the eye. 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.

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## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration % W/W	GHS Classification*
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	20 - 30%	Not Applic
Silica, amorphous, fumed, crystalline free	112945-52-5	1 - 5%	Not Applic
Silanetriol, ethyl-, triacetate	17689-77-9	< 5%	Acute Tox 4 - H302 Skin Corr 1B - H314
Silanetriol, methyl-, triacetate	4253-34-3	< 5%	Acute Tox 4 - H302 Skin Corr 1C - H314

Not Applic = Not Applicable

\* Please see Section 15 of this SDS for the full text description of the Label elements.

## 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. 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. As the product is a sealant, if the person has ingested the product, caution should be exercised in using 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 or at least a source of running water are recommended in the area where the product is used.

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## SECTION 4 – FIRST AID MEASURES Continued

### 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. Ingestion may lead to nausea and diarrhoea. Eye contact may lead to localised burning, redness and tearing. Skin contact may lead to redness or itching.

**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 a sealant, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects.

## 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.

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

**COMBUSTION HAZARDS:** Combustion may produce carbon dioxide and carbon monoxide as well as metal oxides, smoke and irritating vapours.

### 5.3 ADVICE FOR FIREFIGHTERS:

**FIRE:** This product is not flammable under conditions of use. It is a sealant that will burn if preheated - Typical Flash Point >151°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 rubber, Butyl rubber or Latex 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.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES Continued

### 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. 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.

## 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 secondary 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 INCOMPATIBILITIES:

**SAFE STORAGE:** This product is a sealant paste that will burn if preheated. Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing at a temperature range of 15 - 25°C. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**INCOMPATIBILITIES:** Releases acetic acid in contact with moisture.

## SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

### 8.1 EXPOSURE CONTROL MEASURES:

**EXPOSURE LIMIT VALUES:** Exposure standards for the product have not been established. Component Exposure Standard should be observed:

**Iron Oxide fume (Fe<sub>2</sub>O<sub>3</sub>) (as Fe):**

TWA: 5 mg/m<sup>3</sup>

On contact with moisture/humidity the product releases Acetic Acid.

**Acetic Acid:**

TWA: 25 mg/m<sup>3</sup>; 10ppm      STEL: 37 mg/m<sup>3</sup>; 15ppm

### 8.2 BIOLOGICAL MONITORING:

No data available.

### 8.3 CONTROL BANDING:

No data available.

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## SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION Cont'd

### 8.4 ENGINEERING CONTROLS:

**ENGINEERING CONTROLS:** Special ventilation is not normally required when using this product in normal use scenarios. However, at elevated temperatures, or in confined spaces acetic acid vapours will be generated upon curing of the sealant 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:** As the product releases acetic acid upon curing or in contact with moisture, wear safety glasses/goggles to avoid eye contact when handling. 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, Butyl rubber or Latex 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 vapours are generated, an approved half face A1 organic vapour 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:** Redish Brown Liquid Paste.  
**ODOUR:** Characteristic acetic acid odour.  
**ODOUR THRESHOLD:** No data available.  
**pH:** No data available.  
**MELTING/FREEZING POINT:** No data available.  
**INITIAL BOILING POINT:** No data available.  
**BOILING RANGE (°C):** No data available.  
**FLASHPOINT (°C):** Typically > 151°C.  
**EVAPORATION RATE:** No data available.  
**FLAMMABILITY LIMITS (%):** Not applicable.  
**VAPOUR PRESSURE (kPa):** No data available.  
**VAPOUR DENSITY:** No data available.  
**DENSITY (g/mL @ 15°C):** Typically 1.3.  
**SOLUBILITY IN WATER(g/L):** Not miscible.  
**PARTITION COEFFICIENT:** Not determined.  
**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.

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## 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. Product will react with water or moisture releasing acetic acid.
- 10.2 CHEMICAL STABILITY:** Stable under recommended storage and handling conditions (see section 7).
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Keep away from water/moisture. 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.
- 10.5 INCOMPATIBLE MATERIALS:** Water/moisture.
- 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.

**Silanetriol, ethyl-, triacetate**

Oral - LD<sub>50</sub> (Rat): 1460 mg/kg

**Silanetriol, methyl-, triacetate**

Oral - LD<sub>50</sub> (Rat): 1600 mg/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 below the Concentration cut-off levels where the product would be rated. As the product contains silanetriol components, that release acetic acid in contact with moisture, ingestion 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 not expected to exhibit Dermal Corrosivity/Irritation based on the information provided by the manufacturer. May be mildly irritating to the skin. The product contains silanetriol components that are rated as corrosive to the skin, however the manufacturer states that the components are not irritants until they are present in the product at levels greater than 10%. 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:** May be mildly irritating to the eyes. Symptoms may include localised burning, redness and tearing. The product contains silanetriol components that are rated as corrosive to the eye, however the manufacturer states that the components are not irritants until they are present in the product at levels greater than 10%. As the silanetriol components release acetic acid in contact with water, irritation may occur if product that enters the eye is not rinsed out immediately. 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. This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

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## SECTION 11 – TOXICOLOGICAL INFORMATION Continued

- 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 according to the manufacturer.
- 11.7 CARCINOGENICITY:** This product is not expected to be a carcinogen based on the available data and the known hazards of the components according to the manufacturer.
- 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 according to the manufacturer.
- 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 according to the manufacturer. 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 acetic acid vapours generated by the product contacting moisture during the curing process 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 based on the available data and the known hazards of the components according to the manufacturer.
- 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 according to the manufacturer. However, as the product is a sealant, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects.
- 11.11 OTHER INFORMATION:** As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

## SECTION 12 – ECOLOGICAL INFORMATION

- 12.1 ECOTOXICITY:** There is no data available for the product as a whole. Based upon the information supplied by the manufacturer, the overall product would not be expected to be rated.
- 12.2 PERSISTENCE & DEGRADABILITY:** There is no data available for the product as a whole.
- 12.3 BIOACCUMULATIVE POTENTIAL:** There is no data available for the product as a whole.
- 12.4 MOBILITY IN SOIL:** There is no data available for the product as a whole. As the product is a sealant, if released onto soil it is expected that it will adsorb onto soil particles and will not be mobile.
- 12.5 OTHER ADVERSE EFFECTS:** Do not allow the product to reach ground water, water courses or sewage systems. The product is not 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. 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. 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 disposed of. Empty containers should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations.

## 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



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## SECTION 15 – REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

#### APPLICABLE REGULATIONS:

<b>SUSMP:</b>	Not scheduled.
<b>AICS:</b>	All ingredients are on the AICS List.
<b>MONTREAL PROTOCOL:</b>	Not applicable to this product.
<b>STOCKHOLM CONVENTION:</b>	Not applicable to this product.
<b>ROTTERDAM CONVENTION:</b>	Not applicable to this product.
<b>BASEL CONVENTION:</b>	Not applicable to this product.
<b>INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):</b>	Not determined.

#### OTHER REGULATORY INFORMATION:

##### GHS CLASSIFICATION HAZARD CLASS & CATEGORY

**AND HAZARD STATEMENT:** Acute Toxicity - Oral Category 4; H302 - Harmful if swallowed.  
Skin Corrosion/Irritation Category 1B; H314 - Causes severe skin burns and eye damage.

**HSNO APPROVAL NUMBER:** Not applicable.

**HSNO GROUP TITLE:** Not applicable.

## SECTION 16 – ANY OTHER RELEVANT INFORMATION

#### SDS INFORMATION:

**Date of SDS Preparation:** 3<sup>rd</sup> September 2018

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

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## SECTION 16 – ANY OTHER RELEVANT INFORMATION Continued

### ACRONYMS (Continued):

EC <sub>50</sub>	Effective Concentration of a substance that causes 50% of the maximum response after exposure for a nominated time
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
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 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  
 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

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.