# SAFETY DATA SHEET

Revision date: 25-Jan-2023

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| Product identifier  |  |
|---|--|
| Product Name  | ZINC SULPHATE MONOHYDRATE  |
| Product Code(s)   | 00000033335  |
| Other means of identification   |  |
| UN number   | 3077   |
| CAS No.   | 7446-19-7  |
| Synonyms  | Zinc Sulfate Monohydrate   |
| Recommended use of the chemical   | and restrictions on use  |
| Recommended use   | Pharmaceutical applications.   |
| Uses advised against  | No information available.  |
| Details of the supplier of the safety   | data sheet   |
| <u>Supplier</u><br>Ixom Operations Pty Ltd (Bronson & J<br>Street Address: 166 Totara Street<br>Mt Maunganui South<br>New Zealand | acobs division) - incorporated in Australia  |
| Telephone Number: +64 9 309 2528<br>Facsimile: +64 9 0508 366 364   |  |
| For further information, please cont  | tact   |
| Contact Point   | Product Safety Department  |
| Emergency telephone number  |  |
| Emergency Telephone   | 0 800 734 607 (ALL HOURS)  |
| Please ensure you refer to the limitations of this s  | Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet. |
| 2. HAZARDS IDENTIFICAT  | ION  |
| Classified as a Dangerous Good acco   | rding to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.                       |
| Classified as hazardous according to  | criteria in the Hazardous Substances (Hazard Classification) Notice 2020.                      |

### GHS Classification

### SIGNAL WORD



#### Danger

Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 Approval Number: HSR002503

| Acute toxicity - Oral                              | Category 4 |
|--|------------|
| Serious eye damage/eye irritation                  | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Acute aquatic toxicity                             | Category 1 |
| Chronic aquatic toxicity                           | Category 1 |

### Label elements



#### Hazard statements

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Do not breathe fume, gas, mist, vapours, spray Do not eat, drink or smoke when using this product Wash hands thoroughly after handling Wear eye protection/ face protection Avoid release to the environment **Precautionary Statements - Response** Get medical advice/attention if you feel unwell IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Collect spillage **Precautionary Statements - Storage** No storage statements **Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Other hazards which do not result in classification

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

| Chemical name            | CAS No.   | Weight-% |
|--------------------------|-----------|----------|
| Zinc sulfate monohydrate | 7446-19-7 | 100      |

### 4. FIRST AID MEASURES

| General advice   | For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.  |  |  |
|--|--|--|--|
| Emergency telephone number   | Poisons Information Center, New Zealand: 0800 764 766<br>Poisons Information Center, Australia: 13 11 26   |  |  |
| Inhalation   | Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.   |  |  |
| Eye contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.   |  |  |
| Skin contact   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.   |  |  |
| Ingestion  | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.   |  |  |
| Most important symptoms and effe   | cts, both acute and delayed  |  |  |
| Symptoms   | Irritation/Corrosion. May cause redness and tearing of the eyes.   |  |  |
| Indication of any immediate medical attention and special treatment needed   |  |  |  |
|  | Con source correct human Treat sumptometically   |  |  |
| Note to physicians   | Can cause corneal burns. Treat symptomatically.  |  |  |
|  |  |  |  |
| Note to physicians 5. FIRE FIGHTING MEASU Suitable Extinguishing Media   |  |  |  |
| 5. FIRE FIGHTING MEASU   |  |  |  |
| 5. FIRE FIGHTING MEASU<br>Suitable Extinguishing Media   | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry   |  |  |
| <b>5. FIRE FIGHTING MEASU</b><br>Suitable Extinguishing Media<br>Suitable Extinguishing Media  | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2). High volume water jet.  |  |  |
| <b>5. FIRE FIGHTING MEASU</b><br>Suitable Extinguishing Media<br>Suitable Extinguishing Media<br>Unsuitable extinguishing media  | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2). High volume water jet.  |  |  |
| <b>5. FIRE FIGHTING MEASU</b><br>Suitable Extinguishing Media<br>Suitable Extinguishing Media<br>Unsuitable extinguishing media<br><u>Specific hazards arising from the c</u><br>Specific hazards arising from the   | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2). High volume water jet. hemical Non-combustible material. Decomposes on heating emitting toxic fumes including those of oxides of sulfur and oxides of zinc. Environmentally hazardous. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local   |  |  |
| <ul> <li><b>5. FIRE FIGHTING MEASU</b></li> <li>Suitable Extinguishing Media</li> <li>Suitable Extinguishing Media</li> <li>Unsuitable extinguishing media</li> <li>Specific hazards arising from the c</li> <li>Specific hazards arising from the chemical</li> </ul>   | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2). High volume water jet. hemical Non-combustible material. Decomposes on heating emitting toxic fumes including those of oxides of sulfur and oxides of zinc. Environmentally hazardous. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Oxides of sulfur. Oxides of zinc.                            |  |  |
| <ul> <li><b>5. FIRE FIGHTING MEASU</b></li> <li>Suitable Extinguishing Media</li> <li>Suitable Extinguishing Media</li> <li>Unsuitable extinguishing media</li> <li>Specific hazards arising from the c</li> <li>Specific hazards arising from the chemical</li> <li>Hazardous combustion products</li> </ul>  | RES Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2). High volume water jet. hemical Non-combustible material. Decomposes on heating emitting toxic fumes including those of oxides of sulfur and oxides of zinc. Environmentally hazardous. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Oxides of sulfur. Oxides of zinc.                            |  |  |
| <ul> <li><b>5. FIRE FIGHTING MEASU</b></li> <li>Suitable Extinguishing Media</li> <li>Suitable Extinguishing Media</li> <li>Unsuitable extinguishing media</li> <li>Specific hazards arising from the c</li> <li>Specific hazards arising from the chemical</li> <li>Hazardous combustion products</li> <li>Special protective actions for fire-f</li> <li>Special protective equipment for</li> </ul> | RES<br>Not combustible, however, if material is involved in a fire use:. Water spray. Foam. Dry<br>chemical. Carbon dioxide (CO2).<br>High volume water jet.<br>hemical<br>Non-combustible material. Decomposes on heating emitting toxic fumes including those of<br>oxides of sulfur and oxides of zinc. Environmentally hazardous. Fire residues and<br>contaminated fire extinguishing water must be disposed of in accordance with local<br>regulations.<br>Oxides of sulfur. Oxides of zinc. |  |  |

### Description of first aid measures

### Personal precautions, protective equipment and emergency procedures

| Personal precautions                                 | Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Ensure adequate ventilation. Avoid generation of dust. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Wash thoroughly after handling. Use personal protective equipment as required. |  |  |
|--|--|--|--|
| For emergency responders                             | Clear area of all unprotected personnel. Use personal protection recommended in Section 8.   |  |  |
| Environmental precautions                            |  |  |  |
| Environmental precautions                            | Do not allow to enter into soil/subsoil. Prevent product from entering drains. See Section 12 for additional Ecological Information.   |  |  |
| Methods and material for containment and cleaning up |  |  |  |
| Methods for containment                              | Stop leak if you can do it without risk. Remove ignition sources. Provide adequate ventilation. Isolate spill or leak area immediately. Keep out of drains, sewers, ditches and waterways. Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.  |  |  |
| Methods for cleaning up                              | Slippery when spilt. Avoid accidents, clean up immediately. Cover with damp absorbent(inert material, sand or soil). Vacuum or sweep material and place in a disposal container. Avoid generation of dust. Use personal protective equipment as required. Pick up and transfer to properly labelled containers.                              |  |  |
| Precautions to prevent secondary h                   | azards   |  |  |
| Prevention of secondary hazards                      | Clean contaminated objects and areas thoroughly observing environmental regulations.   |  |  |

# 7. HANDLING AND STORAGE

### Precautions for safe handling

| Advice on safe handling                                      | Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Avoid generation of dust. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. Use personal protection equipment. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice.  |  |  |
|--|--|--|--|
| General hygiene considerations                               | iderations Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothin is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. |  |  |
| Conditions for safe storage, including any incompatibilities |  |  |  |
| Storage Conditions   | Keep containers tightly closed in a cool, well-ventilated place. Protect from sunlight. Store away from foodstuffs. Store between 10°C and 30°C. Store between 10-55% relative air humidity. Store away from incompatible materials (refer to SDS). Keep container closed when not in use.   |  |  |
| Incompatible materials                                       | None known.  |  |  |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulate(s):

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m<sup>3</sup> (inhalable dust) or 3 mg/m<sup>3</sup> (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties Powder or Crystals **Physical state** Appearance No information available. Color White Odor Odourless No information available. **Odor threshold** Property Values Remarks • Method 5-6@5% w/v pН None known pH (as aqueous solution) None known No data available None known Melting point / freezing point Boiling point / boiling range No data available None known Flash point Not Applicable None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known Upper flammability or explosive Not Applicable limits Lower flammability or explosive Not Applicable limits Vapor pressure No data available None known Vapor density No data available None known **Relative density** No data available None known No data available None known Water solubility Solubility(ies) No data available None known **Partition coefficient** No data available None known Autoignition temperature No data available None known Decomposition temperature 680 °C (decomposed to ZnO) None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

### **10. STABILITY AND REACTIVITY**

| Reactivity                         |  |
|------------------------------------|--|
| Reactivity                         | No information available.                |
| Chemical stability                 |  |
| Stability                          | Stable under normal conditions.          |
| Explosion data                     |  |
| Sensitivity to mechanical impact   | None.                                    |
| Sensitivity to static discharge    | No.                                      |
| Possibility of hazardous reactions |  |
| Hazardous polymerization           | Hazardous polymerization does not occur. |
| Possibility of hazardous reactions | None under normal processing.            |
| Conditions to avoid                |  |

**Conditions to avoid** Heat, flames and sparks. Avoid exposure to moisture. Avoid dust generation. Contact with foodstuffs.

Incompatible materials

Incompatible materials None known.

Hazardous decomposition products

Hazardous decomposition products Oxides of sulfur. Oxides of zinc.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

### Information on likely routes of exposure

| Product Information | No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:                              |
|---------------------|--|
| Inhalation          | May cause irritation. Breathing in dust may result in respiratory irritation.  |
| Eye contact         | Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness.  |
| Skin contact        | May cause irritation.  |
| Ingestion           | Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. A side effect of oral manganese administration is an increase in losses of calcium in the faeces and a subsequent lowering of calcium blood levels. |
| Symptoms            | Irritation/Corrosion. May cause redness and tearing of the eyes.   |
|                     |  |

Acute toxicity

Numerical measures of toxicity

|   | Inhalation LC50 |
|---|-----------------|
| Zinc sulfate monohydrate = 1710 mg/kg (Rat) - | -               |

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation         | No information available.  |
|-----------------------------------|----------------------------|
| Serious eye damage/eye irritation | Causes serious eye damage. |
| Respiratory or skin sensitization | No information available.  |
| Germ cell mutagenicity            | No information available.  |
| Carcinogenicity                   | No information available.  |
| Reproductive toxicity             | No information available.  |
| STOT - single exposure            | No information available.  |

| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure.   |
|--------------------------|--|
| Aspiration hazard        | No information available.  |
| Chronic effects:         | Zinc oxide dust or fume cab irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can case metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to skin.(1) |

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Ecotoxicity

Very toxic to aquatic life with long lasting effects. Avoid contaminating waterways.

Terrestrial ecotoxicity

There is no data for this product.

| Chemical name            | Algae/aquatic plants   | Fish   | Crustacea   |
|--------------------------|--|--|---|
| Zinc sulfate monohydrate | EC50: =0.056mg/L (72h,<br>Pseudokirchneriella subcapitata)<br>EC50: =64.8mg/L (72h, Chlorella<br>vulgaris) EC50: =2.4mg/L (96h,<br>Chlorella vulgaris) | LC50: =0.162mg/L (96h,<br>Oncorhynchus mykiss) LC50: 0.03 -<br>0.05mg/L (96h, Oncorhynchus<br>mykiss) LC50: 0.34 - 0.93mg/L<br>(96h, Oncorhynchus mykiss) LC50:<br>0.218 - 0.42mg/L (96h, Pimephales<br>promelas) LC50: 3.55 - 6.32mg/L<br>(96h, Lepomis macrochirus) LC50:<br>=0.63mg/L (96h, Poecilia reticulata)<br>LC50: 49.23 - 64.16mg/L (96h,<br>Poecilia reticulata) LC50: 0.48 -<br>1.72mg/L (96h, Poecilia reticulata)<br>LC50: =0.06mg/L (96h, Pimephales<br>promelas) LC50: 0.23 - 0.48mg/L<br>(96h, Pimephales promelas) LC50:<br>0.168 - 0.25mg/L (96h, Pimephales<br>promelas) LC50: =0.15mg/L (96h,<br>Cyprinus carpio) LC50: 16.85 -<br>27.18mg/L (96h, Cyprinus carpio)<br>LC50: 3 - 4.6mg/L (96h, Lepomis<br>macrochirus) | EC50: =0.75mg/L (48h, Daphnia<br>magna) EC50: 0.538 - 0.908mg/L<br>(48h, Daphnia magna) |

### Persistence and degradability

| r croistenee and degradability |                           |
|--------------------------------|---------------------------|
| Persistence and degradability  | Not biodegradable. (1).   |
| Bioaccumulative potential      |                           |
| Bioaccumulation                | No information available. |
| <u>Mobility</u>                |                           |
| Mobility in soil               | No information available. |
|                                |                           |
| Other adverse effects          |                           |
| Other adverse effects          | No information available. |

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

| Waste from residues/unused<br>products | Dispose of product in packaging/container in a way that is consistent with the Hazardous<br>Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments<br>and Revocations) Notice 2020. Treat the chemical using a method that changes the<br>characteristics or composition of the chemical so that the chemical is no longer a hazardous<br>chemical; or export the chemical from New Zealand as waste. Class 9 chemical , if the<br>chemical, or if it contains a component that is bioaccumulative and not rapidly degradable,<br>then any component that is bioaccumulative and not rapidly degradable must be removed.<br>The product may only be discharged into the environment if an environmental exposure<br>limit has been set for the chemical (or a component of the chemical); and the discharge<br>does not, after reasonable mixing, result in the concentration of the substance in an<br>environmental medium exceeding the environmental exposure limit. |
|--|---|
| Contaminated packaging                 | For packages that have been in direct contact with hazardous chemicals, the person must<br>ensure that the package is rendered incapable of containing any chemical. It must be<br>disposed of in a manner that is consistent with the requirements for disposal of the<br>chemical that it contained, taking into account the material the package is manufactured<br>from. Packages may only be reused or recycled if the package has been treated to remove<br>any residual contents of the hazardous chemical (class 1, 2, 3, 4, or 5); or the contents of<br>the residue in the package are below the threshold for the chemical to be classified as<br>hazardous (class 6, 8, or 9 chemical).   |

## **14. TRANSPORT INFORMATION**

| ROAD AND RAIL TRANSPORT  | Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land; DANGEROUS GOODS.  |
|--|--|
| UN number<br>Proper shipping name<br>Hazard class<br>Packing group<br>Environmental hazard         | 3077<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE<br>MONOHYDRATE)<br>9<br>III<br>Yes<br>374, 234, 235, 235, AU01                               |
| Special Provisions<br>Hazchem code   | 274, 331, 335,375, AU01<br>2Z  |
| IATA   | Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS. |
| UN number<br>UN proper shipping name   | 3077<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE<br>MONOHYDRATE)  |
| Transport hazard class(es)<br>Packing group  | 9<br>  |
| IMDG_  | Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.                    |
| UN number<br>UN proper shipping name   | 3077<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE<br>MONOHYDRATE)  |
| Transport hazard class(es)<br>Packing group<br>IMDG EMS Fire<br>IMDG EMS Spill<br>Marine pollutant | 9<br>III<br>F-A<br>S-F<br>Yes  |

### **15. REGULATORY INFORMATION**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

| New 2 | Zeal | and |
|-------|------|-----|
|-------|------|-----|

**National regulations** 

See section 8 for national exposure control parameters

| International Inventories |  |
|---------------------------|--|
| NZIoC                     | This material is listed on the New Zealand Inventory of Chemicals.           |
| TSCA                      | Contact supplier for inventory compliance status.                            |
| DSL/NDSL                  | Contact supplier for inventory compliance status.                            |
| EINECS/ELINCS             | Contact supplier for inventory compliance status.                            |
| ENCS                      | Contact supplier for inventory compliance status.                            |
| IECSC                     | Contact supplier for inventory compliance status.                            |
| KECL                      | Contact supplier for inventory compliance status.                            |
| PICCS                     | Contact supplier for inventory compliance status.                            |
| AIIC                      | This material is listed on the Australian Inventory of Industrial Chemicals. |

Legend:

#### NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

- EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS Japan Existing and New Chemical Substances
- **IECSC** China Inventory of Existing Chemical Substances
- KECL Korean Existing and Evaluated Chemical Substances
- **PICCS** Philippines Inventory of Chemicals and Chemical Substances

**AIIC- Australian Inventory of Industrial Chemicals** 

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **16. OTHER INFORMATION**

(1) Supplier Safety Data Sheet 07/2022

| Prepared By          | This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services). |
|----------------------|--|
| Issuing Date:        | 25-Jan-2023  |
| Reason(s) For Issue: | Revised Primary SDS  |

### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

| Legend Section<br>TWA<br>Ceiling  | 8: EXPOSURE CONTROLS/PERSONAL PRO<br>TWA (time-weighted average)<br>Maximum limit value   | DTECTION<br>STEL<br>*  | STEL (Short Term Exposure Limit)<br>Skin designation |
|---|---|--|--|
| С   | Carcinogen  |  |  |
| Agency for Toxic<br>U.S. Environmen<br>European Food S<br>EPA (Environmer<br>Acute Exposure C<br>U.S. Environmen<br>Food Research J<br>Hazardous Subst<br>International Unif<br>Japan GHS Class<br>Australian Industr<br>NIOSH (National<br>National Library C<br>National Library C<br>National Library C<br>National Toxicolo<br>New Zealand's C<br>Organization for F<br>Organization for F<br>RTECS (Registry<br>World Health Org | ance Database<br>orm Chemical Information Database (IUCLID)<br>sification<br>rial Chemicals Introduction Scheme (AICIS)<br>Institute for Occupational Safety and Health)<br>of Medicine's ChemID Plus (NLM CIP)<br>of Medicine's PubMed database (NLM PUBME<br>ogy Program (NTP)<br>hemical Classification and Information Database<br>Economic Co-operation and Development Envi<br>Economic Co-operation and Development High<br>Economic Co-operation and Development High<br>Economic Co-operation and Development Screet<br>of Toxic Effects of Chemical Substances) | gicide, and Rodentic<br>Chemicals<br>D)<br>se (CCID)<br>ironment, Health, an | d Safety Publications<br>chemicals Program           |
| Disclaimer<br>This SDS summ   | arises to our best knowledge at the date of   | iccus the chemics  | basith and asfaty bazarda of the materia             |

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris and Australian Botanical Products.

**End of Safety Data Sheet**