

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Penetraide**  
 Product Use: Fertiliser  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd  
 Address: 10 Firth Street  
 Drury, 2113

Telephone: +64 9 294 8453  
 Fax Number: +64 9 294 7272

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 24 March 2022

### Section 2. Hazards Identification

**Classified as NOT hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2020.**

### Section 3. Composition / Information on Ingredients

| Ingredients                     | Wt%    | CAS NUMBER. |
|---------------------------------|--------|-------------|
| Primary Alcohol Ethyloxyate     | <10    | Proprietary |
| Other non-hazardous ingredients | To bal | -           |

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

If on Skin: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

If Inhaled: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### **Most important symptoms and effects, both acute and delayed**

Symptoms: None known.

## Section 5. Fire Fighting Measures

|   |  |
|---|--|
| <b>Hazard Type</b>  | There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product, if scattered, may form flammable or explosive dust clouds in air.<br>Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. |
| <b>Hazards from combustion products</b>                             | When heated to decomposition, it emits toxic fumes of NOx and ammonia.   |
| <b>Suitable Extinguishing media</b>                                 | Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.   |
| <b>Precautions for firefighters and special protective clothing</b> | Self-contained breathing apparatus.<br>If a significant quantity of this product is involved in a fire, call the fire brigade. Do not scatter spilled material with high pressure water jets.  |
| <b>HAZCHEM CODE</b>   | <b>None allocated</b>  |

## Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable Dust Mask. Use a P1 mask, designed for use against mechanically generated particles eg silica & asbestos.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Can be slippery on floors, especially when wet. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## Section 7. Handling and Storage

### Precautions for Handling:

- Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.
- Wear PPE as per Section 8.

### Precautions for Storage:

- Store packages of this product in a cool place.
- Make sure that containers of this product are kept tightly closed.
- Keep containers dry and away from water.
- Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.
- Check packaging - there may be further storage instructions on the label.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA |                   | STEL |                   |
|-----------|-----|-------------------|------|-------------------|
|           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12<sup>TH</sup> EDITION.

### Engineering Controls

No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dusts are minimised.

### Personal Protection Equipment for bulk use:

|                       |   |
|-----------------------|---|
| <b>Eyes</b>           | Eye protection such as protective glasses or goggles is recommended when this product is being used.  |
| <b>Hands and Skin</b> | The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely. We suggest that protective clothing be made from the following materials: cotton, rubber, PVC. |
| <b>Respiratory</b>    | If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.  |

## Section 9 Physical and Chemical Properties

|   |  |
|---|--|
| <b>Appearance</b>                       | Light tan or gray granules of uniform size |
| <b>Odour</b>                            | Mild odour                                 |
| <b>Odour Threshold</b>                  | Not available                              |
| <b>pH</b>                               | Not available                              |
| <b>Boiling Point</b>                    | Decomposes before boiling at 100kPa.       |
| <b>Melting Point</b>                    | Not available                              |
| <b>Freezing Point</b>                   | Not available                              |
| <b>Flash Point</b>                      | Not available                              |
| <b>Flammability</b>                     | None                                       |
| <b>Upper and Lower Explosive Limits</b> | Not available                              |
| <b>Vapour Pressure</b>                  | Not available                              |
| <b>Vapour Density</b>                   | Not available                              |
| <b>Relative Density</b>                 | Not available                              |
| <b>Solubilities</b>                     | Partially soluble.                         |
| <b>Partition Coefficient:</b>           | Not available                              |
| <b>Auto-ignition Temperature</b>        | Not available                              |
| <b>Decomposition Temperature</b>        | Not available                              |
| <b>Kinematic Viscosity</b>              | Not available                              |

## Section 10. Stability and Reactivity

|   |   |
|---|---|
| <b>Stability of Substance</b>           | This product is stable under normal conditions.   |
| <b>Conditions to Avoid</b>              | This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry.  |
| <b>Incompatible Materials</b>           | water, strong acids, strong oxidising agents.   |
| <b>Hazardous Decomposition Products</b> | Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and |

unconsciousness followed by coma and death.

## Section 11 Toxicological Information

### Acute Effects:

|                   |  |
|-------------------|--|
| <b>Swallowed</b>  | Not applicable. Significant oral exposure is considered to be unlikely. However, this product is believed to be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort. Long Term Exposure: No data for health effects associated with long term ingestion. |
| <b>Dermal</b>     | Not applicable.  |
| <b>Inhalation</b> | Not applicable. Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.                   |
| <b>Eye</b>        | Not applicable.  |
| <b>Skin</b>       | Not applicable.  |

### Chronic Effects:

|                               |                 |
|-------------------------------|-----------------|
| <b>Carcinogenicity</b>        | Not applicable. |
| <b>Reproductive Toxicity</b>  | Not applicable. |
| <b>Germ Cell Mutagenicity</b> | Not applicable. |
| <b>Aspiration</b>             | Not applicable. |
| <b>STOT/SE</b>                | Not applicable. |
| <b>STOT/RE</b>                | Not applicable. |

## Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

|                                      |  |
|--------------------------------------|--|
| <b>Persistence and degradability</b> | This product is biodegradable.   |
| <b>Bioaccumulation</b>               | No data available.   |
| <b>Mobility in Soil</b>              | It will not accumulate in the soil or water or cause long term problems. |
| <b>Other adverse effects</b>         | No data available.   |

## Section 13. Disposal Considerations

**Disposal Method:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

**Precautions:** None known.

**Disposal methods to avoid:** None known.

## Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

## Section 15 Regulatory Information

**Section 16**

**Other Information**

**Glossary**

|                  |   |
|------------------|---|
| Cat              | Category  |
| EC <sub>50</sub> | Median effective concentration.   |
| EEL              | Environmental Exposure Limit.   |
| EPA              | Environmental Protection Authority  |
| HSNO             | Hazardous Substances and New Organisms.   |
| LC <sub>50</sub> | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD <sub>50</sub> | Lethal dose to kill 50% of test animals/organisms.                                      |
| LEL              | Lower explosive level.  |
| OSHA             | American Occupational Safety and Health Administration.                                 |
| TEL              | Tolerable Exposure Limit.   |
| TLV              | Threshold Limit Value-an exposure limit set by responsible authority.                   |
| UEL              | Upper Explosive Level   |
| WES              | Workplace Exposure Limit  |

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Please contact the New Zealand distributor, if further information is required.

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