

## SAFETY DATA SHEET

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

Product: **Nutricote 12-4.4-8.3-TE (MICRO)**  
 Item Code:  
 Product Use: Fertiliser  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd  
 Address: 10 Firth Street  
 Drury, 2114

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

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

Date of SDS Preparation: 19 July 2022 v2

### Section 2. Hazards Identification

**Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.**

**EPA Approval No: Fertilisers (subsidiary) – HSR002571**

#### Pictograms



Signal Word: Warning

| GHS Classification and Category                     | Hazard Code | Hazard Statement                                     |
|---|-------------|--|
| Eye irritation Cat. 2                               | H319        | Causes serious eye irritation.                       |
| Skin sensitisation Cat. 1                           | H317        | May cause an allergic skin reaction.                 |
| Reproductive toxicity Cat. 2                        | H361        | Suspected of damaging fertility or the unborn child. |
| Hazardous to the aquatic environment chronic Cat. 4 | H401        | Toxic to aquatic life.                               |

| Prevention Code | Prevention Statement  |
|-----------------|---|
| P103            | Read label before use.  |
| P202            | Do not handle until all safety precautions have been read and understood. |
| P261            | Avoid breathing dust.   |
| P264            | Wash hands thoroughly after handling.                                     |
| P272            | Contaminated work clothing should not be allowed out of the workplace.    |
| P273            | Avoid release to the environment.   |

|      |  |
|------|--|
| P280 | Wear protective clothing.                      |
| P281 | Use personal protective equipment as required. |

| Response Code    | Response Statement   |
|------------------|--|
| P363             | Wash contaminated clothing before reuse.   |
| P302 + P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313      | IF exposed or concerned: Get medical advice/ attention.  |
| P333 + P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337 + P313      | If eye irritation persists: Get medical advice/attention.  |

| Storage Code | Storage Statement |
|--------------|-------------------|
| P405         | Store locked up.  |

| Disposal Code | Disposal Statement                                       |
|---------------|--|
| P501          | Dispose of according to Local Regulations or Authorities |

### Section 3. Composition / Information on Ingredients

| Ingredients                  | Wt%   | CAS NUMBER. |
|------------------------------|-------|-------------|
| Ammonium sulfate             | 3.9   | 7783-20-2   |
| Ammonium nitrate             | 30.0  | 6484-52-2   |
| Monobasic ammonium phosphate | 14.8  | 7722-76-1   |
| Calcium phosphate            | 4.4   | 7757-93-9   |
| Potassium sulfate            | 20.6  | 7778-80-5   |
| Magnesium sulfate            | 6.9   | 7487-88-9   |
| EDTA-Fe(III)                 | 1.8   | 15708-41-5  |
| Manganese sulfate hydrate    | 0.2   | 10034-96-5  |
| Copper sulfate hydrate       | 0.1   | 10257-54-2  |
| Boric acid                   | 0.1   | 10043-35-3  |
| Disodium molybdate hydrate   | 0.045 | 10102-40-6  |
| Zinc sulfate hydrate         | 0.045 | 7446-19-7   |
| Silica fumes                 | 0.9   | 7631-86-9   |
| Salts of water               | 1.7   | -           |
| Polyolefin                   | 7.4   | -           |
| Talc                         | 7.5   | 14807-96-6  |

### Section 4. First Aid Measures

Routes of Exposure:

|              |  |
|--------------|--|
| If in Eyes   | Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.  |
| If on Skin   | Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.  |
| If Swallowed | If conscious, give plenty of water to drink and provoke vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.   |
| If Inhaled   | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. |

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

Symptoms:

Product Name: Nutricote Micro  
Date of SDS: 19 July 2022

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
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|             |  |
|-------------|--|
| Inhalation: | Not applicable.                                      |
| Ingested:   | May be harmful if swallowed.                         |
| Skin:       | May cause an allergic skin reaction.                 |
| Eye:        | Causes serious eye irritation.                       |
| Chronic:    | Suspected of damaging fertility or the unborn child. |

## Section 5. Fire Fighting Measures

|   |  |
|---|--|
| <b>Hazard Type</b>  | Non-combustible substance with oxidizing ingredient  |
| <b>Hazards from combustion products</b>                             | When heated to decomposition, it emits toxic fumes of NOx and ammonia.   |
| <b>Suitable Extinguishing media</b>                                 | Water  |
| <b>Precautions for firefighters and special protective clothing</b> | Self-contained breathing apparatus.<br>Remove the product from the source of fire.<br>Remove the product from combustible materials as it may support combustion of them.<br>If it is difficult to move, flush with plenty of water. |
| <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.

Keep out of water supplies, lakes, ponds, streams and rivers.

Sweep up and shovel into suitable containers for disposal. Avoid contact with combustibles. Reuse as fertilizer, if possible.

Do not empty into drains. Retain and dispose of contaminated wash water.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.
- Avoid mixing with fuels, other combustible materials and strong alkaline agents.

### Precautions for Storage:

- The product is hygroscopic and should therefore be stored in a dry place.
- Store away from reducing agents.
- Keep out of reach of children.
- Store locked up.

## 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> |
| Talc (containing no asbestos fibres) [14807-96-6] | -   | 2 (Respirable dust) |      |                   |

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 APRIL 2022 13TH EDITION.

### Engineering Controls

No specific controls are needed.

### Personal Protection Equipment

Normally not required. In extremely dusty conditions, appropriate protective equipment is recommended.

|                       |   |
|-----------------------|---|
| <b>Eyes</b>           | Wear goggles with side shields. Avoid wearing contact lenses. |
| <b>Hands and Skin</b> | Normal clean work clothing and rubber gloves.                 |
| <b>Respiratory</b>    | Dust mask with particle filter.                               |

## Section 9 Physical and Chemical Properties

|   |   |
|---|---|
| <b>Appearance</b>                       | Solid, Gray Granules  |
| <b>Odour</b>                            | Odourless   |
| <b>Odour Threshold</b>                  | Not available   |
| <b>pH</b>                               | 5.3 – 5.7   |
| <b>Boiling Point</b>                    | Not available   |
| <b>Melting Point</b>                    | Not available   |
| <b>Freezing Point</b>                   | Not available   |
| <b>Flash Point</b>                      | >220°C  |
| <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>                 | 1.0 g/cm <sup>3</sup> (Bulk Density)                        |
| <b>Solubilities</b>                     | Fertilizer inside the coating dissolves in water gradually. |
| <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   |
| <b>Particle Size</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>              | High heating.  |
| <b>Incompatible Materials</b>           | Strong alkaline agents.  |
| <b>Hazardous Decomposition Products</b> | Nitrogen oxides (NO <sub>x</sub> ), Ammonia. Decomposition under high temperature. |

## Section 11 Toxicological Information

### Acute Effects:

|                   |                                  |
|-------------------|----------------------------------|
| <b>Swallowed</b>  | Not applicable.                  |
| <b>Dermal</b>     | Not applicable.                  |
| <b>Inhalation</b> | Not applicable.                  |
| <b>Eye</b>        | Causes severe irritation to eyes |

|             |  |
|-------------|--|
| <b>Skin</b> | May cause an allergic skin irritation. |
|-------------|--|

**Chronic Effects:**

|                               |  |
|-------------------------------|--|
| <b>Carcinogenicity</b>        | Not applicable.                                      |
| <b>Reproductive Toxicity</b>  | Suspected of damaging fertility or the unborn child. |
| <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**

Toxic to aquatic life.

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | Fertilizer granules are soluble in water and biodegradable. Coating materials are persistent and not biodegradable. |
| <b>Bioaccumulation</b>               | No data available.  |
| <b>Mobility in Soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No data available.  |

Do not allow to enter waterways.

**Section 13. Disposal Considerations**

**Disposal Method:** Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. Ensure waste container holding any unwanted product or contaminated spill media is labelled "Hazardous Waste"

**Precautions:** depositing the substance in a landfill provided the landfill is managed to ensure that—

- (i) the substance will not at any time come into contact with an explosive or flammable substance (equivalent to HSNO class 1, 2, 3 or 4); and
- (ii) there is no ignition source in the vicinity of the disposal site that is capable of igniting the substance; and
- (iii) if the substance were to combust, or cause or contribute to combustion, no person or place where a person may legally be, would be exposed to more blast overpressure or heat radiation than that described in regulation 7(3)(b) of the Hazardous Substances (Disposal) Regulations 2001; and
- (iv) the concentration of the substance in any discharge from the landfill does not, after reasonable mixing, exceed any relevant tolerable exposure limit and/or environmental exposure limit set for the substance or any of its component(s).

**Disposal methods to avoid:** Do not allow to enter waterways

**Section 14 Transport Information**

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020**

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (Subsidiary Hazard) – HSR002571

## Trigger quantities:

| HSWA & EPA Controls         | Trigger Quantity |
|-----------------------------|------------------|
| Certified Handler           | Not required     |
| Location Certificate        | Not required     |
| Tracking Trigger Quantities | Not required     |
| Signage Trigger Quantities  | 10000kg          |
| Emergency Response Plan     | 10000kg          |
| Secondary Containment       | 10000kg          |
| Restriction of Use          | None             |

## 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 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

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