

## SAFETY DATA SHEET

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

Product: Basfoliar 25-10-17 SP  
 Product No:  
 Product Use: Fertilizer  
 Restrictions 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

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 11 March 2024 v3

### Section 2. Hazards Identification

**Classified as NOT hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.**

### Section 3. Composition / Information on Ingredients

| Ingredients       | Wt%       | CAS NUMBER. |
|-------------------|-----------|-------------|
| Potassium nitrate | ≥10 - ≤40 | 7757-79-1   |
| Non-hazardous     | To bal    |             |

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice.

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

If Swallowed Immediately rinse the mouth with water and drink afterwards plenty of water. Consult the doctor in case of persistent trouble.

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

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SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
 Tel: 64 9 475 5240

Symptoms: May cause eye irritation. May be harmful if swallowed.

**Indication of any immediate medical attention and special treatment needed**

Treatment Treat symptomatically.

**Section 5. Fire Fighting Measures**

|   |  |
|---|--|
| <b>Hazard Type</b>  | Non Flammable  |
| <b>Hazards from combustion products</b>                             | Can decompose at above 130 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia, chloride, hydrogen chloride.                      |
| <b>Suitable Extinguishing media</b>                                 | Water, Water spray or Dry chemical<br>Do not use: Carbon dioxide (CO <sub>2</sub> ), Foam, Sand.   |
| <b>Precautions for firefighters and special protective clothing</b> | In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| <b>HAZCHEM CODE</b>   | <b>None allocated</b>  |

**Section 6. Accidental Release Measures**

Remove all sources of ignition. Wear appropriate PPE as detailed in Section 8.

Use mechanical handling equipment for cleanup. Dispose of according to Section 13.

Do not allow to enter into surface water or drains.

**Section 7. Handling and Storage**

**Handling**

- Read label before use.
- Avoid release to the environment.
- Wear protective clothing.

**Storage**

- To maintain product quality, do not store in heat or direct sunlight.
- Keep away from sources of ignition - No smoking.
- Keep away from combustible material.
- Protect from contamination or moisture.
- Store away from incompatible materials listed in Section 10.

**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 2023 14TH EDITION.

## Control parameters

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name    | End Use            | Exposure routes | Potential health effects | Value                  |
|-------------------|--------------------|-----------------|--------------------------|------------------------|
| potassium nitrate | Workers            | Inhalation      | Systemic effects         | 36,7 mg/m <sup>3</sup> |
|                   | Workers            | Skin contact    | Systemic effects         | 20,8 mg/kg             |
| Remarks:          | Exposure time: 1 d |                 |                          |                        |
|                   | Consumers          | Ingestion       | Systemic effects         | 12,5 mg/kg             |
| Remarks:          | Exposure time: 1 d |                 |                          |                        |
|                   | Consumers          | Skin contact    | Systemic effects         | 12,5 mg/kg             |
| Remarks:          | Exposure time: 1 d |                 |                          |                        |
|                   | Consumers          | Inhalation      | Systemic effects         | 10,9 mg/m <sup>3</sup> |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name    | Environmental Compartment | Value      |
|-------------------|---------------------------|------------|
| potassium nitrate | Fresh water               | 0,45 mg/l  |
|                   | Marine water              | 0,045 mg/l |
|                   | Ceiling Limit Value       | 4,5 mg/l   |
|                   | Sewage treatment plant    | 18 mg/l    |

## Engineering Controls

Ensure adequate ventilation is available.

|                       |  |
|-----------------------|--|
| <b>Eyes</b>           | In case of dust formation: Tightly fitting safety goggles.                       |
| <b>Hands and Skin</b> | Wearing of gloves is recommended.  |
| <b>Respiratory</b>    | Breathing apparatus only if aerosol or dust is formed.                           |
| <b>General</b>        | At the end of the shift the skin should be cleaned and skin care agents applied. |

## Section 9 Physical and Chemical Properties

|   |                                      |
|---|--------------------------------------|
| <b>Appearance</b>                       | Crystalline                          |
| <b>Colour</b>                           | various                              |
| <b>Odour</b>                            | Odourless                            |
| <b>Odour Threshold</b>                  | Not available                        |
| <b>pH @ 20°C</b>                        | ca. 5, Concentration: 100 g/l, 20 °C |
| <b>Boiling Point</b>                    | Not available                        |
| <b>Melting Point</b>                    | Not available                        |
| <b>Freezing Point</b>                   | Not available                        |
| <b>Flash Point</b>                      | Not available                        |
| <b>Flammability</b>                     | The product is not flammable.        |
| <b>Upper and Lower Explosive Limits</b> | Not available                        |
| <b>Vapour Pressure</b>                  | Not available                        |
| <b>Bulk Density</b>                     | ca. 1.200 kg/m <sup>3</sup>          |
| <b>Solubilities</b>                     | soluble                              |
| <b>Partition Coefficient:</b>           | Not available                        |
| <b>Auto-ignition Temperature</b>        | Not available                        |

|                                  |  |
|----------------------------------|--|
| <b>Decomposition Temperature</b> | ca. 130 °C, To avoid thermal decomposition, do not overheat. |
| <b>Kinematic Viscosity</b>       | Not available  |
| <b>Particle Characteristics</b>  | Not applicable   |

## Section 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Stability of Substance</b>           | This product is stable under normal conditions.        |
| <b>Conditions to Avoid</b>              | Temperature 130 °C<br>Heat, flames and sparks.         |
| <b>Hazardous Reactions</b>              | No decomposition if stored and applied as directed.    |
| <b>Incompatible Materials</b>           | Acids<br>Bases<br>Organic materials<br>Powdered metals |
| <b>Hazardous Decomposition Products</b> | Nitrogen oxides (NOx), ammonia                         |

## Section 11 Toxicological Information

### Acute Effects:

|                   |                 |
|-------------------|-----------------|
| <b>Swallowed</b>  | Not applicable. |
| <b>Dermal</b>     | Not applicable. |
| <b>Inhalation</b> | Not applicable. |
| <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. |

### Components:

#### **potassium nitrate:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,527 mg/l

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

## Section 12. Ecotoxicological Information

Not considered hazardous to the environment.

### Product:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

### Components:

#### **potassium nitrate:**

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 490 mg/l  
Exposure time: 48 h

Toxicity to algae : LC50 :  $\geq$  1.700 mg/l  
Exposure time: 10 d

|                                      |  |
|--------------------------------------|--|
| <b>Persistence and degradability</b> | The methods for determining the biological degradability are not applicable to inorganic substances. |
| <b>Bioaccumulation</b>               | Does not accumulate in organisms.  |
| <b>Mobility in Soil</b>              | Slightly mobile in soils   |
| <b>Other adverse effects</b>         | No data available.   |

Do not allow to enter waterways.

### Section 13. Disposal Considerations

#### Disposal Method:

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

#### Precautions and methods to avoid:

Do not allow to enter into surface water or drains where possible.

### Section 14 Transport Information

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

### Section 15 Regulatory Information

**Classified as NOT hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.**

### 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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