

## SAFETY DATA SHEET

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

Product: Calcium Salt (Calcium Nitrate Tetrahydrate)  
 Product No:  
 Product Use: Ingredient chemical  
 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: 13 July 2023

### Section 2. Hazards Identification

**This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020**

**EPA Approval No: Additives, Process Chemicals and Raw Materials (Subsidiary) – HSR002503**

#### Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

#### Prevention Code      Prevention Statement

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective clothing as detailed in Section 8.

#### Response Code      Response Statement

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.

P330	Rinse mouth.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage Code                      Storage Statement**

None allocated	
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**Disposal Code                      Disposal Statement**

P501	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.
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**Section 3.                      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Calcium Salt (Calcium Nitrate Tetrahydrate)	98 - 100	13477-34-4

**Section 4.                      First Aid Measures**

Routes of Exposure:

If in Eyes	If possible, remove the contact lens. Open the eyelids, immediately rinse with clean running water for more than 15 minutes. Get medical attention immediately.
If on Skin	Remove contaminated clothing and shoes. Rinse with skin running water after washing with soap or skin cleanser. Seek medical assistance if needed.
If Swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep the person warm and rest, seek medical attention immediately and show the container or label.
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:	
Swallowed:	Harmful if swallowed.
Inhalation:	Not applicable.
Eyes:	Causes serious eye damage.
Skin:	Not applicable.

**Section 5.                      Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	No data available.
<b>Suitable Extinguishing media</b>	Extinguishing media for surrounding fires.
<b>Precautions for</b>	Firemen should wear proper protective equipment and positive pressure

<b>firefighters and special protective clothing</b>	self-contained breathing apparatus with whole face protection. In case of fire, evacuate all personnel from the affected area and adjacent areas and quickly isolate the scene. Do not take action if there is any personal danger or if you have not received proper training.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

## Section 6. Accidental Release Measures

Wear PPE as detailed in Section 8. Evacuate the surrounding area. Prevent the entry of irrelevant and unprotected persons, do not touch or walk through spilled material. Provide adequate ventilation

Prevent the overflow from spreading or flowing away. Avoid spillage into soil, rivers, sewers and sewers. If the product has caused environmental pollution, please inform the relevant authorities.

Isolate the spill area and restrict access.

Small spills: avoid dust, collect with a clean spatula in a dry, clean, covered container, move to a secure location.

Large spills: cover with plastic sheets and canvas to reduce dispersion. Use non-cremation tools to collect and recycle or transport to a waste disposal site for disposal. Refer to Section 13 for disposal methods.

## Section 7. Handling and Storage

### Handling

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective clothing as detailed in Section 8.
- Airtight operation, full ventilation.
- Operators must be specially trained and strictly follow the operating procedures.
- Keep away from fire, heat, and smoking in the workplace.
- Use explosion-proof ventilation systems and equipment, and use non-sparking metal tools.

### Storage

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in a cool, ventilated warehouse.
- Keep away from the fire, the heat.
- The storage room is equipped with explosion-proof lighting and ventilation.
- Do not use spark-generating machinery or tools.
- The storage area shall be equipped with leak emergency treatment equipment.

## 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

### Engineering Controls

Adequate explosion-proof ventilation equipment and local exhaust ventilation equipment shall be installed. There are eye washers and a safety shower nearby.

### Personal Protective Equipment



<b>Eyes</b>	Use safety glasses with side-shields.
<b>Hands</b>	Wear standard chemical resistant, impermeable gloves.
<b>Skin</b>	Wear protective clothing. Wear anti-static shoes.
<b>Respiratory</b>	Use respirator or dust-proof mask. In case of emergency or evacuation, wear an air breathing apparatus.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Solid (crystal)
<b>Colour</b>	White
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>pH solution</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting/Freezing Point</b>	Not available
<b>Crystallisation temp</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Density</b>	Not available
<b>Solubilities</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Dynamic Viscosity</b>	Not available
<b>Particle Characteristics</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>	No data available
<b>Hazardous Reactions</b>	No data available
<b>Incompatible Materials</b>	No data available
<b>Hazardous Decomposition Products</b>	No data available

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes serious eye damage
<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**

Not classified as dangerous to the environment.

<b>Product:</b>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**Section 13. Disposal Considerations**

**Disposal Method:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – "Corrosive" and that the label also has the Corrosive Pictogram, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** None known.

**Section 14 Transport Information**

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**

**Section 15 Regulatory Information**

**This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020**

EPA Approval No: Additives, Process Chemicals and Raw Materials (Subsidiary) – HSR002503

**Trigger quantities:**

<b>HSWA &amp; EPA Controls</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L

Emergency Response Plan	1000L
Secondary Containment	1000L
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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Please contact the New Zealand distributor, if further information is required.

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