

## SAFETY DATA SHEET

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

Product: WUXAL<sup>®</sup> Calcuim  
 Product No: 21827  
 Product Use: Fertiliser, preparation for plant nutrition.  
 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: 25 July 2019 v2

### Section 2. Hazards Identification

**This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017**

**Group Standard & EPA Approval Code: Fertilisers (subsidiary) - HSR002571**

#### Pictograms



Toxic



Chronic



Corrosive

Signal Word: **DANGER**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.1D	H302	Harmful if swallowed.	Acute Tox. 4
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
8.3A	H318	Causes serious eye damage.	Eye Corr. 1

#### Prevention Code      Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective clothing.

P281	Use personal protective equipment as required.
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**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.
P331	Do NOT induce vomiting.
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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

**Storage Code                      Storage Statement**

P405	Store locked up.
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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**

Ingredients	Wt%	CAS NUMBER.
Nitric Acid, Ammonium Calcium Salt	50-60	15245-12-2
Boric Acid	0.1-1	10043-35-3

**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. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. Immediately call a POISON CENTRE or doctor/physician
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Immediately rinse the mouth. DO NOT induce vomiting. Call a POISON CENTER (0800 764 766) 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:

<b>Ingestion:</b>	Harmful if swallowed
<b>Inhalation:</b>	Not applicable
<b>Skin:</b>	Not applicable
<b>Eye:</b>	Causes severe eye damage
<b>Chronic:</b>	Suspected of damaging fertility or the unborn child

**Section 5.                      Fire Fighting Measures**

<b>Hazard Type</b>	Corrosive
<b>Hazards from decomposition products</b>	The material itself is hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
<b>Suitable Extinguishing media</b>	Water, carbon dioxide, dry extinguishing media.
<b>Precautions for firefighters and special protective clothing</b>	Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.
<b>HAZCHEM CODE</b>	<b>None Allocated</b>

### Section 6. Accidental Release Measures

Avoid substance contact. Wear closed working clothes, protecting glasses and hand protection. Remove soiled clothes.

Absorb with absorption media.  
Disposal of contaminated material as waste according to section 13.

### Section 7. Handling and Storage

#### Handling

- Keep out of reach of children.
- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective clothing.
- Use personal protective equipment as required.

#### Storage

- Protect the product from impurity and drying up.
- Store locked up.
- Keep containers tightly closed.
- Do not store in metal containers (corrosion risk).
- Do not store below +5 °C and above +40 °C.
- Do not store together with food and luxury food, beverage and animal feed.

### 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 ingredient has 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 2017 9TH EDITION.

#### Engineering Controls

Ensure adequate ventilation to minimize exposure

## Personal Protection Equipment



<b>Eyes</b>	Safety goggles with side shields.
<b>Hands</b>	Chemical resistance rubber or plastic gloves.
<b>Skin</b>	Closed working clothes.
<b>Respiratory</b>	Not required. Respiratory protection necessary at vapours/aerosol and wet fog formation.

### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Aqueous crystal solution
<b>Colour</b>	Green
<b>Odour</b>	Product specific
<b>Odour Threshold</b>	Not applicable
<b>pH (original state)</b>	Approx 5-7
<b>pH at 13g/l H<sub>2</sub>O and 20°C:</b>	Approx 8
<b>Change in physical state</b>	> 100°C evaporation of water
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Upper and Lower Explosive Limits</b>	Not applicable
<b>Explosive hazards</b>	The product contains calcium nitrate. It is harmless as a suspension, but in crystallized state exists explosion hazard if mixed with inflammable.
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Density @ 20°C</b>	approx. 1.6 g/cm <sup>3</sup>
<b>Water Solubility @ 20°C</b>	approx. 200 g/l
<b>Partition Coefficient:</b>	Not applicable
<b>Self-ignition</b>	The product is not spontaneously flammable.
<b>Decomposition Temperature</b>	Not applicable
<b>Kinematic Viscosity</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Reacts with alkalis setting ammonia free.
<b>Conditions to Avoid</b>	Temperatures above +40° C. Keep the product from drying up.
<b>Incompatible Materials</b>	Organic combustible substances, reducing agents.
<b>Hazardous Decomposition Products</b>	No decomposition if correctly used. Thermic decomposition: If larger quantities of the product are on fire, the formation of gas is possible.

### Section 11 Toxicological Information

#### Acute Effects:

Product Name: WUXAL Calcium  
Date of SDS: 25 July 2019

Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

<b>Swallowed</b>	Harmful if swallowed. Mixture calculation for this product = LD50 (oral): =830mg/kg.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Cause serious eye damage.
<b>Skin</b>	Not applicable.

**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**

This product is not known to be hazardous 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

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

**Section 13. Disposal Considerations**

**Disposal Method:**

Triple rinse container. Add rinsate to waste container for disposal. 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 or methods to avoid:** None known.

**Section 14 Transport Information**

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

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

HSNO Classification: 6.1D(oral), 6.8B, 8.3A

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L(8.3A)
Emergency Response Plan	1000L (6.1D)
Secondary Containment	1000L (6.1D)
Restriction of Use	Only use for the intended purpose.

**Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
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

**Disclaimer**

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Please contact the Horticulture, if further information is required.

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