

SAFETY DATA SHEET

Section 1.	Identification of the material and the supplier
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Product:	WUXAL [®] Boron
Product No:	22232
Product Use:	Fertiliser, preparation for plant nutrition.
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:	4 August 2014

Section 2.	Hazards Identification
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The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

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

Pictograms



Irritant



Chronic

Signal Word: **WARNING**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
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6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Category 2
9.1D	H401	Toxic to aquatic life.	Category 4

Prevention Code	Prevention Statement
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P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280/1	Wear protective clothing and equipment.

Response Code Response Statement

P338	Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: 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.
Boric Acid	40%	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. 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, then drink a lot 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.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases, ammonia and phosphoric acid gases is possible.
Suitable Extinguishing media	Water, carbon dioxide, dry extinguishing media.
Precautions for firefighters and special protective	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

clothing	groundwater.
HAZCHEM CODE	1X

Section 6. Accidental Release Measures

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

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

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

Section 7. Handling and Storage

Handling

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing and equipment.

Storage

- Protect the product from impurity and drying up.
- Keep containers tightly closed.
- Keep locked up or in an area accessible only to qualified or authorised persons.
- Do not store below +5 °C and above +40 °C.
- Do not store together with food and luxury food, beverage and animal feed. Oxidizing agents, combustible substances.

Section 8 Exposure Controls / Personal Protection

According to the german national regulations, the preparation contains constituents with occupational exposure limits biological occupational exposure limits requiring monitoring.

Boric Acid = 0.5 mg/m³ inhalable fraction.

Engineering

Controls Not applicable. Ensure adequate ventilation to minimize exposure

Personal Protection

Eyes: Safety goggles with side protection.

Skin: Skin-protective barrier cream and closed working clothes.

Hand: In full contact: Glove material: nitrile rubber
 Layer thickness: 0.11 mm
 Breakthrough time: > 480 Min.

In splash contact: Glove material: nitrile rubber
 Layer thickness: 0.11 mm
 Breakthrough time: > 480 Min.

Respiratory: Required when vapours/aerosols are generated.

Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

Industrial Hygiene Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance.

Section 9 Physical and Chemical Properties

Appearance	Aqueous crystal suspension
Colour	Green
Odour	Product specific
pH(original state):	Approx 6.5
pH at 13g/l H₂O and 20°C:	Approx 7
Change in physical state:	> 100°C evaporation of water
Self ignition	The product is not spontaneously inflammable.
Density (at 20°C)	Approx. 1.4 g/cm ³
Solubility in Water (at 20°C)	Approx 200g/l

Section 10. Stability and Reactivity

Stability of Substance	The product is stable under normal conditions.
Conditions to Avoid	Temperatures above +40° C. Keep the product from drying up.
Incompatible Materials	None known.
Hazardous Decomposition Products	No decomposition if correctly used.
Thermic Decomposition	If larger quantities of the product are on fire, the formation of nitrous gases, ammonia and phosphoric acid gases is possible.

Section 11 Toxicological Information

Toxicological tests

Acute toxicity:

LD₅₀ (oral): =>5000 mg/kg.

Further toxicological information

After eye contact: Causes serious eye irritation.

After skin contact: Causes mild skin irritation.

Chronic:

Suspected of damaging fertility or the unborn child.

After uptake of

Large quantities: Possible symptoms: agitation, spasms, tiredness, ataxia (impaired locomotive coordination), drop in temperature.

Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

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

Fertilizer material.

The following applies to boron compounds in general:

Biological effects: boric acid developing as a result of hydrolysis toxic for aquatic organisms;
fish: *Gambusia affinis* 96 h. LC₅₀: 5600 mg/l;
24 h. LC₅₀: 1800 mg/l;

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Tel: 64 9 475 5240

plants: as toxic from 1 mg/l

Ensure that the product does not reach the ground-water, water bodies or the drainage system. No ecological problems are to be expected when the product is handled and used with due care and attention.

Section 13. Disposal Considerations

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.

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: 6.3B, 6.4A, 6.8B, 9.1D

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	10000L/kg
Emergency Response Plan trigger Quantities	10000L/kg

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by TCC (NZ) Ltd and serves as their 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) Ltd 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, Horticulture Ltd, if further information is required.

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