

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL[®] Boron

Product No: 22232

Product Use: Fertiliser, preparation for plant nutrition.

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

±64 0 204 8453

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





Irritant

Chronic

Signal Word: WARNING

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
9.1D	H402	Harmful to aquatic life.	Aquatic Chronic 4

Prevention Code Prevention Statement

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.

Product Name: WUXAL Boron Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 25 July 2019 Tel: 64 9 475 5240 www.techcomp.co.nz

Page 1

P280/1	Wear protective clothing and equipment.
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Response Code Response Statement

P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	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.

Disposal Code Disposal Statement

	Triple rinse container. Cleaned packaging maybe offered for recycling or
P501	landfill in accordance with local regulations. Dispose of unwanted product as
	a hazardous material according to Local Regulations.

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.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable **Inhalation:** Not applicable

Skin: Causes mild skin irritation. **Eye:** Causes serious eye irritation.

Chronic: Suspected of damaging fertility or the unborn child.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from	The material itself is harmless and hardly inflammable. Ambient fire may
decomposition	liberate hazardous vapours. If larger quantities of the product are on
products	fire, the formation of nitrous gases, ammonia and phosphoric acid gases

Product Name: WUXAL Boron Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 25 July 2019 Tel: 64 9 475 5240 www.techcomp.co.nz

	is possible.
Suitable	Water, carbon dioxide, dry extinguishing media.
Extinguishing	
media	
Precautions for	Do not stay in dangerous zone without suitable protecting clothes and
firefighters and	self-contained breathing apparatus. Contain escaping vapours with
special protective	water. Prevent fire-fighting water from entering surface water or
clothing	groundwater.
HAZCHEM CODE	1X

Accidental Release Measures Section 6.

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

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

STEL ppm mg/m³ **Substance** ppm mg/m³

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

Prepared by: Technical Compliance Consultants (NZ) Ltd Product Name: WUXAL Boron Date of SDS: 25 July 2019

Tel: 64 9 475 5240 www.techcomp.co.nz

Personal Protection Equipment







Eyes	Safety goggles with side shields.		
Hands	In full or splash contact:		
	Glove material: nitrile rubber		
	Layer thickness: 0.11 mm		
	Breakthrough time: > 480 Min.		
Skin	Closed working clothes and skin-protective barrier cream		
Respiratory	Required when vapours/aerosols are generated.		
	Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful		
	substances.		
General	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
Odour Threshold	Not applicable
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
Boiling Point	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower	Not applicable
Explosive Limits	
Explosive hazards	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Density @ 20°C	approx. 1.4 g/cm ³
Water Solubility @ 20°C	Approx 200g/l
Partition Coefficient:	Not applicable
Self-ignition	The product is not spontaneously flammable.
Decomposition	Not applicable
Temperature	
Kinematic Viscosity	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	None known.
reactions	
Conditions to Avoid	Temperatures above +40° C. Keep the product from drying up.
Incompatible Materials	Strong Oxidiser.
Hazardous Decomposition	If larger quantities of the product are on fire, the formation of
Products	nitrous gases, ammonia and phosphoric acid gases is possible.

Product Name: WUXAL Boron Date of SDS: 25 July 2019 Prepared by: Technical Compliance Consultants (NZ) Ltd Tel: 64 9 475 5240 www.techcomp.co.nz

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (oral): = >5000 mg/kg.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Cause serious eye irritation.	
Skin	Causes mild skin irritation.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Suspected of damaging fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	
Other	After uptake of large quantities: Possible symptoms: agitation, spasms, tiredness, ataxia (impaired locomotive coordination), drop in temperature.	

Individual component information:

Acute Toxicity:

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Boric Acid	2668 mg/kg	-	-
(Cas no 10043-35-3)	(mouse)		

Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

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;

plants: as toxic from 1 mg/l

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: Do not allow to enter waterways.

Product Name: WUXAL Boron Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 25 July 2019 Tel: 64 9 475 5240 www.techcomp.co.nz

Page 5

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

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 000L (9.1D)
Emergency Response Plan	10 000L (9.1D)
Secondary Containment	10 000L (9.1D)
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ 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

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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Horticentre, if further information is required.

Issue Date: 25 July 2019 Review Date: 25 July 2024

Product Name: WUXAL Boron Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 25 July 2019 Tel: 64 9 475 5240 www.techcomp.co.nz