

## Super Boron™

### Section 1: Identification of the Substance or Mixture and of the Supplier

<b>Product name:</b>	Super Boron™
<b>Recommended use:</b>	Correction of Boron deficiencies.
<b>Company details:</b>	Grochem (AgriNova New Zealand Limited) 15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.com
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)
<b>Date of preparation:</b>	07 July 2017

### Section 2: Hazards Identification

<b>Hazard classification (Transport):</b>	Not a Dangerous Good for transport.
<b>Hazardous substances (HSNO):</b>	6.1D (WARNING: Harmful in contact with skin, if inhaled or swallowed) 6.3B (WARNING: Causes mild skin irritation) 6.4A (WARNING: Causes eye irritation) 6.8B (WARNING: Suspected of damaging fertility or the unborn child) 9.1D (Harmful to aquatic life)



### Section 3: Composition/Information on Ingredients

**Classification & type: Pure substance**

Material	CAS No.	Proportion (%w)
Disodium Octaborate Tetrahydrate	12008-41-2	Approx 70%
Urea	57-13-6	Approx 25%
Non-Hazardous components		to 100%

### Section 4: First Aid Measures

<b>Symptoms of exposure:</b>	No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms that may arise if the product is mishandled are:
If Swallowed	Swallowing can result in nausea, vomiting, diarrhoea and abdominal pain.
If in Eyes	Causes eye irritation.
If on Skin	Causes mild skin irritation.
If Inhaled	Causes irritation to the mucous membranes of the respiratory tract.
<b>First aid actions:</b>	Call a POISON CENTRE or doctor/physician if you feel unwell. If exposed or concerned, get medical advice/attention. If medical advice is needed, have product container or label at hand.
If Swallowed	Rinse mouth.
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Workplace facilities:</b>	Eyewash, safety shower.
<b>Notes for medical personnel:</b>	Treat symptomatically.

### Section 5: Fire Fighting Measures

<b>Type of Hazard:</b>	Not considered to be a fire hazard.
<b>HAZCHEM code:</b>	N/A
<b>Combustion products:</b>	Decomposition products include Metaboric Acid (HBO <sub>2</sub> ), Pyroboric Acid (H <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ) and Boric Anhydride.
<b>Extinguishing media &amp; methods:</b>	Use media and methods appropriate to combustible material involved. Fertiliser is soluble in water. Waste water should be contained. Prevent run-off from entering waterways, drains and confined areas.
<b>Recommended protective clothing:</b>	Fire-fighters to wear self-contained breathing apparatus.

## Section 6: Accidental Release Measures

<b>Personal protection:</b>	See Section 8.3 for appropriate PPE.
<b>Containment and clean up:</b>	Contain and collect spillage. Prevent product entering waterways, drains and confined areas. Dispose of contaminated material at an approved landfill or use as prescribed on the label.
<b>Special requirements:</b>	See Section 13 for instructions for the disposal of waste/contaminated material.

## Section 7: Handling and Storage

<b>Subsection 1:</b>	<b>Handling</b>
Handling practices	Wear appropriate PPE as detailed in Section 8.3. Read label before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Keep out of reach of children.
<b>Subsection 2:</b>	<b>Storage</b>
Site requirements	Store locked up in a cool dry place away from foodstuffs.

## Section 8: Exposure Controls/Personal Protection

<b>Subsection 1:</b>	<b>Workplace Exposure Guidelines (may also be considered in section 2)</b>
Exposure standards	No exposure standards have been set for this substance.
<b>Subsection 2:</b>	<b>Engineering Controls</b>
Exposure control measures	Use only outdoors or in a well ventilated area. Avoid generating and inhaling dust. Use with local exhaust ventilation or while wearing dust respirator or air-supplied mask.
<b>Subsection 3:</b>	<b>Personal Protective Equipment (PPE)</b>
Detail specifications for equipment	Wear dust respirator or air-supplied mask, eye/face protection, gloves and protective clothing.
General hygiene	Do not eat, drink or smoke while using this product. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Fine white powder	<b>pH</b>	N/A
<b>Odour</b>	N/A	<b>Boiling point (degC)</b>	N/A
<b>Specific gravity (kg/L)</b>	N/A	<b>Freezing point (degC)</b>	N/A
<b>Solubility</b>	Soluble in water	<b>Flashpoint (degC)</b>	N/A

**Section 10: Stability and Reactivity**

<b>Stability of substance:</b>	Stable under normal conditions of use and storage. If moisture is present, can be corrosive to iron.
<b>Conditions to avoid:</b>	No specific conditions to note.
<b>Material to avoid:</b>	No specific materials noted.
<b>Hazardous decomposition products:</b>	Metaboric Acid (HBO <sub>2</sub> ), Pyroboric Acid (H <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ) and Boric Anhydride.
<b>Hazardous polymerization:</b>	Will not occur.

**Section 11: Toxicological Information**

<b>Data and interpretation:</b>	Calculated Oral LD <sub>50</sub> : 1234 mg/kg. See Section 2 for general hazard information.
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**Section 12: Ecological Information**

<b>Potential environmental interactions:</b>	Class 9.1D – Harmful to aquatic life. Designed as a fertiliser to aid plant growth. Concentrated or excessive release is likely to have a detrimental effect on the environment. No data is available
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**Section 13: Disposal Considerations**

<b>Product disposal:</b>	Dispose of only by using in accordance with the label instructions or at an approved Landfill.
<b>Container disposal:</b>	Render packaging incapable of holding product and dispose of at an approved landfill.

**Section 14: Transport Information**

<b>UN number:</b>	N/A
<b>DG class and subsidiary group:</b>	N/A
<b>Proper shipping name:</b>	N/A
<b>Packing group:</b>	N/A
<b>HAZCHEM code:</b>	N/A
<b>Special precautions:</b>	Do not carry more than 10kg on a passenger service vehicle.

**Section 15: Regulatory Information**

<b>Regulatory status:</b>	This substance is approved Pursuant to the HSNO Act 1996, under the Fertilisers (Subsidiary Hazard) Group Standard 2006. HSR002571.
<b>Trigger quantities:</b>	Locations holding more than these quantities must adhere to the relevant requirements:
SDS must be available for	Any quantity
Signage	10000kg
Emergency response plan	1000kg

**Section 16: Other Information**

<b>Revision due:</b>	07 July 2022.
<b>Additional information:</b>	Directions for use are found on the product label.

**Glossary:**

ACVM	Agricultural Compounds and Veterinary Medicines (in relation to Group or Act 1997)
CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
HSNO	Hazardous Substances and New Organisms (legislation 1996)
LD50	Lethal Dose to kill 50% of test animals/organisms
PPE	Personal Protective Equipment

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of GroChem, it is the user's responsibility to determine conditions of safe use of the product.