Super Boron™

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

Product name: Super Boron™
Recommended use: Correction of Boron deficiencies.
Company details: Grochem (AgriNova New Zealand Limited)
15 Sunlight Grove
Porirua
New Zealand
Telephone: +64 4 237 0905
Email: grochem@grochem.com
Emergency telephone:
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)
Date of preparation: 07 July 2017

Section 2: Hazards Identification

Hazard classification (Transport): Not a Dangerous Good for transport.
Hazardous substances (HSNO):
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

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Proportion (%w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octaborate Tetrahydrate</td>
<td>12008-41-2</td>
<td>Approx 70%</td>
</tr>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>Approx 25%</td>
</tr>
<tr>
<td>Non-Hazardous components</td>
<td></td>
<td>to 100%</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Symptoms of exposure:
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.

First aid actions:
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.

Workplace facilities:
Eyewash, safety shower.

Notes for medical personnel:
Treat symptomatically.

Section 5: Fire Fighting Measures

Type of Hazard:
Not considered to be a fire hazard.

HAZCHEM code:
N/A

Combustion products:
Decomposition products include Metaboric Acid (HBO2), Pyroboric Acid (H2B4O7) and Boric Anhydride.

Extinguishing media & methods:
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.

Recommended protective clothing:
Fire-fighters to wear self-contained breathing apparatus.
Section 6: Accidental Release Measures

Personal protection: See Section 8.3 for appropriate PPE.

Containment and clean up: 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.

Special requirements: See Section 13 for instructions for the disposal of waste/contaminated material.

Section 7: Handling and Storage

Subsection 1: Handling

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.

Subsection 2: Storage

Site requirements
Store locked up in a cool dry place away from foodstuffs.

Section 8: Exposure Controls/Personal Protection

Subsection 1: Workplace Exposure Guidelines (may also be considered in section 2)

Exposure standards
No exposure standards have been set for this substance.

Subsection 2: Engineering Controls

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.

Subsection 3: Personal Protective Equipment (PPE)

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fine white powder</td>
</tr>
<tr>
<td>Odour</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific gravity (kg/L)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling point (degC)</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing point (degC)</td>
<td>N/A</td>
</tr>
<tr>
<td>Flashpoint (degC)</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Section 10: Stability and Reactivity

<table>
<thead>
<tr>
<th><strong>Stability of substance:</strong></th>
<th>Stable under normal conditions of use and storage. If moisture is present, can be corrosive to iron.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Conditions to avoid:</strong></td>
<td>No specific conditions to note.</td>
</tr>
<tr>
<td><strong>Material to avoid:</strong></td>
<td>No specific materials noted.</td>
</tr>
<tr>
<td><strong>Hazardous decomposition products:</strong></td>
<td>Metaboric Acid (HBO2), Pyroboric Acid (H2B4O7) and Boric Anhydride.</td>
</tr>
<tr>
<td><strong>Hazardous polymerization:</strong></td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### Section 11: Toxicological Information

**Data and interpretation:**
Calculated Oral LD50: 1234 mg/kg. See Section 2 for general hazard information.

### Section 12: Ecological Information

**Potential environmental interactions:**
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.

### Section 13: Disposal Considerations

**Product disposal:**
Dispose of only by using in accordance with the label instructions or at an approved Landfill.

**Container disposal:**
Render packaging incapable of holding product and dispose of at an approved landfill.

### Section 14: Transport Information

<table>
<thead>
<tr>
<th><strong>UN number:</strong></th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DG class and subsidiary group:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Proper shipping name:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Packing group:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>HAZCHEM code:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Special precautions:</strong></td>
<td>Do not carry more than 10kg on a passenger service vehicle.</td>
</tr>
</tbody>
</table>
Section 15: Regulatory Information

Regulatory status: This substance is approved Pursuant to the HSNO Act 1996, under the Fertilisers (Subsidiary Hazard) Group Standard 2006. HSR002571.

Trigger quantities: Locations holding more than these quantities must adhere to the relevant requirements:
- SDS must be available for Any quantity
- Signage 1000kg
- Emergency response plan 1000kg

Section 16: Other Information

Revision due: 07 July 2022.

Additional information: 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