

# Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Hi- Boron  
**Synonyms:** -  
**Product Type:** Liquid Soil Conditioner

**Company Name:** Hi-Tech Ag Solutions  
 24 Shanahan Road (PO Box 5351)  
 Davenport WA 6230 Australia

**Phone:** 08 9725 7322

**Emergency Contact:** Terry Kneale  
**After Hours** Chief Executive Office  
 0499 944 099

**Date of Issue:** 19<sup>th</sup> March 2019

## 2. HAZARDS IDENTIFICATION

**Hazard Classification:** **Classes as HAZARDOUS according to the criteria of the globally harmonised system of classification and labelling of chemicals (GHS) NON-DANGEROUS GOODS. - Dangerous goods classification according to the Australia Dangerous Goods Code.**

**GHS Classification:** Reproductive Toxicity – Category 1B

**Label Elements:**



**Signal Word:** Danger

**Hazard Statement:** H360FD – May Damage Fertility. May damage the unborn child.

**Precautionary Statement(s):** P201 – Obtain Special Instruction before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P281 – Use personal protective equipment as required

**Response:** P308+P313 – if exposed or concerned. Get medical advice/attention

**Storage:** P405 – Store locked up.

**Disposal:** P501- Dispose of Contents/container to an approved waste disposal plant.

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### 3. INFORMATION ON INGREDIENTS

#### COMPONENTS

**Boric Acid** Cas no. 10043-35-3

**Urea** Cas no. 57-13-6

**Proportion:** Up to 100%

### 4. FIRST AID MEASURES

**Inhalation:** Mild irritant can occur when spraying diluted solution. Move to maximum ventilation. and seek medical attention.

**Ingestion:** Not harmful in small quantities, do not induce vomiting. Rinse mouth out. Seek medical attention.

**Skin Contact:**



Rinse skin off immediately with plenty water for 15 to 20 minutes. Seek medical advice if irritation persists.

**Eye:**



Rinse with plenty of clean water for 15 minutes, seek Medical Advise

**First Aid Facilities:** Eyewash and normal washroom facilities

**Advice to Doctor:** Treat symptomatically.

**Other Information:** For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

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### 5. FIRE FIGHTING MEASURES

**Hazards from Combustion:** Non-combustible material.

**Specific Hazards:** When in Combustion emits toxic fumes

**Precautions in connection with Fire:** Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Dike area to prevent runoff and contamination of water sources.

**Extinguishing Media:** Dry Chemical, water spray (fog), foam or carbon dioxide

**Hazchem Code:** 2(Z)

### 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:** Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation.  
 If possible, contain the spill. Place sand, earth or vermiculite on spillage. Collect the material and place into a suitable labelled container.  
 Do not flush down drains or into water ways.

**Other Information:** Large spills may be reportable to the state and/or local regulatory agencies.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Keep containers sealed when not in use. Prevent the build-up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin, eye or clothing contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, and smoking or using toilet facilities.

**Conditions for Safe Storage:** Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Store below 40 degree C and above – 10 degree C. Not Flammable but will ignite if dried to a power. Do not contaminate water, food or feed by storage or disposal.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:** No exposure value assigned for this specific material

**Biological Limit Values:** No biological limits allocated.

**Engineering Controls:** Natural ventilation.

**Eye Protection:**



Face Shields recommended during handling of product. An emergency eyewash or water supply should be readily accessible to the work area.  
Eye protection devices should conform to Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection:**



Wear gloves of impervious material

**Body Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes, overalls and chemical resistant gloves. Wash hand after handling products.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Thin Pale Green liquid  
**Odour:** N/A  
**Melting Point:** N/A  
**Solubility in Water:** 100%  
**Specific Gravity:** 1.32 -1.37  
**pH Value:** 8.5-9.0  
**Vapour Pressure:** N/A  
**Vapour Density (Air=1):** N/A  
**Colour:** Green  
**Flash Point:** N/A  
**Flammability:** Not flammable water based liquid  
**Auto-Ignition Temperature:** N/A  
**Flammable Limits Lower:** N/A  
**Flammable Limits Upper:** N/A

Note: Physical data typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

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### 10. STABILITY AND REACTIVITY

**Reactivity:** Avoid Contact with Strong Acids and Strong oxidising agents. In combustion emits toxic fumes.

**Chemical Stability:** Stable under normal conditions of storage and handling.

**Incompatible Materials:** Avoid Contact with Strong Acids and Strong oxidising agents

### 11. TOXICOLOGICAL INFORMATION

**General:** Hi Boron has low toxicity. Use safe work practices to avoid eye or skin contact and mist inhalation. Prolonged or repeated exposure may cause drying of the skin with cracking and irritation that may lead to dermatitis.

**Acute Oral Toxicity:** Data not available

**Skin Corrosion/Irritation:** Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin contact have been reported.

**Eye Irritant:** May cause irritation, redness and pain following contact.

**Respiratory irritation:** High mist concentration of air-borne material may cause irritation to the nose and upper respiratory tract. Symptoms may include coughing and sore throat. Prolonged exposure may be harmful.

**Germ Cell Mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**Reproductive Toxicity:** May damage fertility or the unborn child  
Animal feeding studies in rat, mouse and dog at high does have demonstrated effects on fertility and testes. Studies with the chemical related boric acid in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the foetal weight loss and minor skeletal variations. The doses administered were many times in excess of which humans would normally be exposed to. A recent epidemiology study under the conditions of normal occupational exposure to borate dust indicated no effect on fertility.

**STOT – single exposure:** Data not available

**STOT- repeated exposure:** Data not available

**Aspiration Hazard:** Data not available

### 12. ECOLOGICAL INFORMATION

**Environment:** It is not anticipated to cause any adverse effects to plants or animals. Biodegradable and has no bioaccumulation potential.

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### 13. DISPOSAL CONSIDERATIONS

Dispose of in appropriately licence general landfill site in accordance with local, state and federal regulations. Waste should be labelled. Special arrangements made to bury bulk waste upon dumping, limiting exposure.

### 14. TRANSPORTATION INFORMATION

The product is a not considered a dangerous good and not subject to the provisions of ADR (road), RID (railway), IMDG (sea) or IATA (airplane).

### 15. REGULATORY INFORMATION

**Poisons Schedule: 5**

### 16. OTHER INFORMATION

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