

## Trace-it Boron

## HAZARDOUS, NON-DANGEROUS GOODS

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

<b>Product name:</b>	Trace it Boron
<b>Recommended use:</b>	For the correction of boron deficiency
<b>Supplier:</b>	Grochem (AgriNova New Zealand Limited)
<b>Company No.:</b>	9429036821501
<b>Street Address:</b>	15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Facsimile:</b>	+64 4 237 0906
<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)

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.

**HSNO Approval Code:** HSR002571 - Fertilisers (Subsidiary Hazard) Group Standard 2020



**Signal Word:** Danger

**Hazard Classifications:** Acute Toxicity - Oral - Category 4  
Skin Corrosion/Irritation - Category 2  
Serious Eye Damage/Irritation - Category 2  
Toxic to Reproduction - Category 2  
Specific target organ toxicity following repeated exposure - Category 1  
Hazardous to Terrestrial Vertebrates

**Hazard Statements:** H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H433 - Harmful to terrestrial vertebrates.

**Prevention Precautionary Statements:** P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust, fume, gas, mist, vapours or spray.

P264 - Wash hands, face and all exposed skin thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P281 - Use personal protective equipment as required.

**Response Precautionary Statements:**

P101 - If medical advice is needed, have product container or label at hand.  
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P302+P352 - IF ON SKIN: Wash with plenty of water and soap.  
 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.  
 P314 - Get medical advice/attention if you feel unwell.  
 P330 - Rinse mouth.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P362 - Take off contaminated clothing.

**Storage Precautionary Statement:**

P405 - Store locked up.

**Disposal Precautionary Statement:**

P501 - Dispose of contents/container in accordance with local, regional, national and international regulations.

**DANGEROUS GOOD CLASSIFICATION:**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### 3. COMPOSITION INFORMATION

**CHEMICAL ENTITY**

Boron ethanolamine complex  
 Ingredients determined to be Non-Hazardous

**CAS NO****PROPORTION**

70 - 80% (w/w)  
 Balance

### 4. FIRST AID MEASURES

**If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).**

Inhalation:	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact:	If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.
Eye contact:	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.
Ingestion:	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs, give further water. Immediately call Poisons Centre or Doctor

**PPE for First Aiders:**

Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:**

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Hazchem Code:</b>	Not applicable.
<b>Suitable extinguishing media:</b>	If material is involved in a fire, use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
<b>Firefighting further advice:</b>	On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

<b>SMALL SPILLS:</b>	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
<b>LARGE SPILLS:</b>	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.
<b>Storage:</b>	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National occupational exposure limits:</b>	No value assigned for this specific material by WorkSafe New Zealand.
<b>Biological Limit Values:</b>	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Measures:</b>	Natural ventilation should be adequate under normal use conditions.
<b>Personal Protection Equipment:</b>	OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.  Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.  Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid	<b>Solubility:</b>	Infinite
<b>Colour:</b>	Thick yellow/brown	<b>Specific Gravity:</b>	1.375
<b>Odour:</b>	Amine	<b>pH:</b>	7.6 typ

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	This material is thermally stable when stored and used as directed.
<b>Conditions to avoid:</b>	Elevated temperatures and sources of ignition.
<b>Incompatible materials:</b>	Oxidising agents, aluminium and copper.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen, smoke and other toxic fumes.
<b>Hazardous reactions:</b>	No known hazardous reactions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE EFFECTS

Inhalation:	Material may be an irritant to mucous membranes and respiratory tract.
Skin contact:	Contact with skin will result in irritation.
Ingestion:	Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	An eye irritant.

### ACUTE TOXICITY

Inhalation:	This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): $LC_{50} > 20.0$ mg/L for vapours or $LC_{50} > 5.0$ mg/L for dust and mist.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000$ mg/Kg bw
Ingestion:	This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $300 < LD_{50} \leq 2,000$ mg/Kg bw
Corrosion/Irritancy:	Eye: this material has been classified as a Category 2 Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).
Sensitisation:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration hazard:	This material has been classified as not an aspiration hazard.
Specific target organ toxicity (single exposure):	This material has been classified as not a specific hazard to target organs by a single exposure.

### CHRONIC TOXICITY

Mutagenicity:	This material has been classified as non-hazardous.
Carcinogenicity:	This material has been classified as non-hazardous.
Reproductive toxicity (including via lactation):	This material has been classified as a Category 2 - Substances that are suspected human reproductive or developmental toxicants.
Specific target organ toxicity (repeat exposure):	This material has been classified as a Category 1 - Substances that are toxic to human target organs or systems.

## 12. ECOLOGICAL INFORMATION

### Avoid contaminating waterways.

<b>Acute aquatic hazard:</b>	This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): $> 100$ mg/L
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<b>Chronic aquatic hazard:</b>	This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.
<b>Ecotoxicity in the soil environment:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity to terrestrial vertebrates:</b>	This material has been classified as harmful to terrestrial vertebrates.
<b>Ecotoxicity to terrestrial invertebrates:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity:</b>	No information available.
<b>Persistence and degradability:</b>	No information available.
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility:</b>	No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

<b>ROAD AND RAIL TRANSPORT</b>	Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".
<b>MARINE TRANSPORT</b>	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
<b>AIR TRANSPORT</b>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

<b>Regulatory status:</b>	Approved pursuant to the Hazardous Substances Act 1996 under the Fertilisers (Subsidiary hazards) Group standards HSR002571. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions
<b>HSNO Trigger quantities:</b>	Trigger quantities for this substance:
SDS must be available for	Any quantity
Bunding	1000L
Emergency management	1000L
Signage	10,000L

### 16. OTHER INFORMATION

<b>Reason for issue:</b>	5 Year Revision
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This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

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.