

## Trace-it Total™

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

<b>Product name:</b>	Trace-it Total™
<b>Recommended use:</b>	Complete micronutrient product for prevention and correction of trace element 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.co.nz
<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>	19 June 2017

Keep out of reach of children.

Read label and Safety Data Sheet completely before using these products.  
Do not handle until all safety directions have been read and understood.

### Section 2: Hazards Identification

<b>Hazard classification (Transport):</b>	Class 9 Miscellaneous Dangerous Good.
<b>Hazardous substances (HSNO):</b>	6.1D (WARNING: Harmful if swallowed) 6.3B (WARNING: Causes mild skin irritation) 6.5B (WARNING: May cause an allergic skin reaction) 6.8B (WARNING: Suspected of damaging fertility or the unborn child) 8.3A (DANGER: Causes serious eye damage) 9.1B (Toxic to aquatic life with long lasting effects) 9.3C (Harmful to terrestrial vertebrates)



### Section 3: Composition/Information on Ingredients

#### Classification & type: Mixture

Material	CAS No.	Proportion (%w)
Boric Acid	10043-35-3	8-10
Copper Sulphate	7758-99-8	2
Zinc Sulphate	7446-19-7	10-12
Manganese Sulphate	10034-96-5	9-11
Other components		to 100%

### Section 4: First Aid Measures

#### Symptoms of exposure:

If Swallowed	Swallowing can result in nausea, vomiting, diarrhoea and abdominal pain.
If in Eyes	Causes serious eye damage.
If on Skin	Cause mild skin irritation and may cause an allergic skin reaction.
If Inhaled	Inhalation of dust may result in respiratory irritation.

#### First aid actions:

	If exposed, concerned or if symptoms persist: Get medical attention/advice. If medical advice is needed, have product container or label at hand.
If Swallowed	Rinse Mouth. Call a POISON CENTRE or Doctor if you feel unwell.
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
If on Skin	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention/advice.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing.

#### Workplace facilities:

Eyewash.

#### Notes for medical personnel:

Treat symptomatically.

### Section 5: Fire Fighting Measures

#### Type of Hazard:

Not a fire hazard.

#### HAZCHEM code:

2X

#### Combustion products:

Not known.

#### Extinguishing media & methods:

Use methods appropriate to combustible material involved. Fertiliser is soluble in water. Do not allow fertiliser or waste water to enter waterways.

#### Recommended protective clothing:

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. 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. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or spray. Do not eat, drink or smoke while using this product.
<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.
<b>Subsection 3:</b>	<b>Personal Protective Equipment (PPE)</b>
Detail specifications for equipment	Wear eye/face protection, gloves and protective clothing.
General hygiene	Do not eat, drink or smoke while using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Brown Powder	<b>pH</b>	2-4 in solution
<b>Odour</b>	Mild	<b>Boiling point (degC)</b>	N/A
<b>Specific gravity (kg/L)</b>	Not available	<b>Freezing point (degC)</b>	N/A
<b>Solubility</b>	Soluble in water	<b>Flammability information</b>	Not flammable

**Section 10: Stability and Reactivity**

<b>Stability of substance:</b>	Generally stable.
<b>Conditions to avoid:</b>	No specific conditions to be noted.
<b>Material to avoid:</b>	No specific materials noted.
<b>Hazardous decomposition products:</b>	Not known.
<b>Hazardous polymerization:</b>	Will not occur.

**Section 11: Toxicological Information**

<b>Data and interpretation:</b>	Calculated Oral LD50 1300mg/kg. See Section 2 for general hazard information.
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**Section 12: Ecological Information**

<b>Potential environmental interactions:</b>	Class 9.1B Toxic to aquatic life with long lasting effects. Class 9.3C Harmful to terrestrial vertebrates. Designed as a fertiliser to aid plant growth. Concentrated or excessive release is likely to have a detrimental effect on the environment.
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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>	3077
<b>DG class and subsidiary group:</b>	9
<b>Proper shipping name:</b>	Environmentally Hazardous Substance, Solid, NOS.
<b>Packing group:</b>	III
<b>Common name:</b>	Fertiliser
<b>HAZCHEM code:</b>	2X
<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. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions
<b>Trigger quantities:</b>	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**

<b>Revision due:</b>	19 June 2022.
<b>Additional information:</b>	Directions for use are found on the product label.
<b>Glossary:</b>	
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.