

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Magri Trace Powder**  
 Item Code: M-H1211  
 Product Use: Trace nutrients for plants  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: HortFertplus  
 Address: 18 Cabernet Crescent  
 Westgate, Auckland 0614  
 Telephone: +64 9 478 5585

Manufacturer: Metabolik  
 Address: 50 Central Park Drive, Henderson  
 PO Box 104253, Lincoln North  
 Auckland 0654

Date of SDS Preparation: 17 November 2017 v 2

### Section 2. Hazards Identification

**This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001***

**EPA Approval No: Fertilisers (subsidiary) – HSR002571**

#### Pictograms



Toxic/Irritant



Chronic



Corrosive



Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.1E(asp)	H304	May be fatal if swallowed and enters airways.	Category 1
6.3A	H315	Causes skin irritation.	Category 2
6.4A	H319	Causes serious eye irritation.	Category 2A
6.5B	H317	May cause an allergic skin reaction.	Category 1
6.8B	H361	Suspected of damaging fertility or the unborn child.	Category 2
6.9A	H372	Causes damage to organs through	Category 1

		prolonged or repeated exposure .	
8.3A	H318	Causes serious eye damage.	Category 1
9.1A	H400	Very toxic to aquatic life.	Category 1
9.3B	H432	Toxic to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Borax	1 - 5%	-
Metallic oxides	30 - 40%	Proprietary
Metallic sulphates	55 - 65%	Proprietary
Metallic Molybdates	1 - 5%	Proprietary

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes                      Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin                        Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention.

If Swallowed	Rinse mouth. DO NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Not flammable
<b>Hazards from combustion products</b>	None known
<b>Suitable Extinguishing media</b>	Water spray or fog or Foam
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus plus suitable protective clothing. Prevent spillage from entering drains and water courses. Use firefighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 100 metres in all directions.
<b>HAZCHEM CODE</b>	<b>2Z</b>

## Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Clean up spill immediately and put into a container for disposal. Do not allow to enter waterways.

Slippery when wet. Cordon off for road and pedestrian traffic. Dispose of according to Local Regulations.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Use in well ventilated area.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

### Precautions for Storage:

- Keep out of reach of children.
- Store locked up.
- Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse.
- Store in original containers.

- Keep containers securely sealed.
- Store in a cool, dry area <15 °C, protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.

**Suitable Container:**

- Glass container suitable for laboratory quantities.
- Foil, Paper, Polyethylene or polypropylene containers.
- Check all containers are clearly labelled and free from leaks.

**Section 8 Exposure Controls / Personal Protection**

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA	STEL
	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

**Engineering Controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

**Personal Protection Equipment**

<b>Eyes</b>	Wear goggles with side shields. Avoid wearing contact lenses.
<b>Hands and Skin</b>	Wear gloves to prevent irritation and drying of skin, always wash hands before eating, drinking or using the toilet. Wear overalls, and protective footwear to prevent contact with skin, chemical resistant apron if necessary. Wash contaminated clothing and other protective equipment before storage or re-use.
<b>Respiratory</b>	Dust mask / respirator meeting requirements of AS/NZS 1715/1716 if dust exposure is likely.
<b>General</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Powder
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not applicable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density</b>	Not available

<b>Solubilities</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions of use and storage.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Avoid Acids
<b>Hazardous Decomposition Products</b>	Not known.

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed. Swallowing may result in irritation of the gastrointestinal tract. Ingestion of large quantities may lead to vomiting, abdominal pain, dizziness, convulsions, shock, coma, and possible death.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Irritant. May cause coughing, shortness of breath, nausea. Risk of sensitisation and dermatitis.
<b>Eye</b>	Causes serious eye damage. Corrosive to ocular tissue.
<b>Skin</b>	Irritant. May cause dermatitis. Risk of sensitisation.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	May be fatal if swallowed and enters airways.
<b>STOT/SE</b>	Causes damage to organs. Not applicable.
<b>STOT/RE</b>	Causes damage to organs through prolonged or repeated exposure. Not applicable.

### Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life. / Very toxic to aquatic life with long lasting effects.  
9.3B = Toxic to terrestrial vertebrates.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	Not likely to Bi-accumulate
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

### Section 13. Disposal Considerations

#### Disposal Method:

Dispose in accordance with all applicable regulations. It is the responsibility of the user of the

product to determine, at the time of disposal.

**Precautions and methods to avoid:**

Do not allow to enter waterways. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Section 14 Transport Information**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

Road and Rail Transport

UN No: 3077  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. [Contains Zinc Sulphate]

Air Transport

UN No: 3077  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. [Contains Zinc Sulphate]

Marine Transport

UN No: 3077  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. [Contains Zinc Sulphate]  
Marine Pollutant: Yes

**Section 15 Regulatory Information**

EPA Approval Code: Fertilisers (subsidiary) – HSR002571

HSNO Classification: 6.1D(oral), 6.1E(asp), 6.3B, 6.5B, 6.8B, 6.9A, 8.3A, 9.1A, 9.3B

HSNO Controls:

Trigger quantities for this substance:

	<b>Trigger Quantity</b>
Approved Handler	Not required as per Group Standard
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L(9.1A)
Emergency Response Plan	100L(9.1A)
Secondary Containment	100L(9.1A)
Restriction of Use	None

**Section 16 Other Information**

**Glossary**

EC<sub>50</sub> Median effective concentration.  
EEL Environmental Exposure Limit.  
EPA Environmental Protection Authority  
HSNO Hazardous Substances and New Organisms.  
LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.  
LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

#### Disclaimer

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 17 November 2017                      Review Date: 17 November 2022