

Safety Data Sheet

Magri-Trace Green



REVISED: 15/02/2017

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Horticulture – Magri Trace Green
Product Code:	M-H1211
Recommended Use:	Trace nutrients for plants
Company Identification:	Metabolik
Address:	50 Central Park Drive, Henderson PO Box 104253, Lincoln North Auckland 0654 New Zealand
Customer Centre:	0064 9 834 3783
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 764 766
Transport Emergency:	111 – Tell operator what service is needed: Fire, Ambulance, Police.

Section 2: HAZARD IDENTIFICATION

Hazard Classifications: 6.1D, 6.1E, 6.3A, 6.4A, 6.5B, 6.8B, 6.9A, 8.3A, 9.1A, 9.3B

Priority Identifiers: WARNING, DANGER



Secondary Identifiers:	6.1D - Substances that are acutely toxic - Harmful
	6.1E - Substances that are acutely toxic –May be harmful, Aspiration hazard
	6.3A - Substances that are irritating to the skin
	6.4A - Substances that are irritating to the eye
	6.5B - Substances that are contact sensitisers
	6.8B - Substances that are suspected human reproductive or developmental toxicants
	6.9A - Substances that are toxic to human target organs or systems
	8.3A - Substances that are corrosive to ocular tissue
	9.1A - Substances that are very ecotoxic in the aquatic environment
	9.3B - Substances that are harmful to terrestrial vertebrates

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Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Borax	-	1 - 5%
Metallic oxides	Proprietary	30 - 40%
Metallic sulphates	Proprietary	55 - 65%
Metallic Molybdates	Proprietary	1 - 5%

Section 4: FIRST AID MEASURES

- First Aid Measures:** Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
- Inhalation:** **If Inhalation of product occurs:**
- Remove patient to fresh air.
 - Lay patient down and keep warm and rested.
 - Encourage patient to blow nose to ensure clear passage of breathing.
 - If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.
 - **Seek medical assistance immediately**
- Ingestion:** **If ingestion occurs:**
- Clean mouth with Water and then drink plenty of water, seek medical attention.
 - For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or Doctor
 - Never give anything by mouth to an unconscious person.
 - **Seek medical assistance immediately**
- Skin:** **If skin contact occurs:**
- Remove all contaminated clothing immediately
 - Wash affected area thoroughly with soap and water.
 - If a large area is affected or symptoms persist seek medical assistance.
- Eye:** **If this product comes in contact with eyes:**
- Immediately hold eyelids open and flush the eye continuously with running water
 - Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes
 - Remove contact lenses if present and easy to do.
 - **Seek medical assistance immediately.**
- Advice to Doctor:** **Treat Symptomatically**

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Section 5: FIRE FIGHTING MEASURES

Combustion Products: **If material is involved in fire use:**

- Water spray or fog
- Foam

Advice to Fighters: **Fire Fighting**

- Alert Fire Brigade and tell them location and nature of hazard
- 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.

Fire / Explosion Hazard

- Non-flammable, non-combustible substance

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: **Minor**

- Clean up spill immediately
- Avoid contact with skin & eyes
- Control personal contact with substance, by using PPE
- Will not fully disperse in water. Do not flush down drains or into waterways
- Slippery when wet, cordon off for road and pedestrian traffic

Major

- Advise personnel in area
- Alert Emergency Services and tell them location and nature of hazard
- Control personal contact with substance by wearing PPE

Protective Clothing: Wear suitable protective clothing, **See section 8**

Environmental Precaution: Contain spill and prevent from entering drains & waterways

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Section 7: HANDLING AND STORAGE

Handling:

Safe Handling

- Avoid Personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Use in well ventilated area

Approved Handler: N/A

Tracking: N/A

Record Keeping: N/A

Storage:

Safe Storage:

- 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

Other information:

- Dispose of in accordance with regulatory authority, local and national guidelines
- Always read label before use.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

Exposure Guidelines:

No values assigned for this specific material by the New Zealand Occupational Safety & Health Service [OSH]. However, Exposure Standard(s) for constituent(s):

Particulates, not otherwise classified, inhalable particulate: WES-TWA 10 mg/M³ –
inspirable dust, 3mg/m³ dust

Protective Equipment



HAND PROTECTION Wear gloves to prevent irritation and drying of skin, always wash hands before eating, drinking or using the toilet



SAFETY GOGGLES Safety glasses/goggles.

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Dust mask / respirator meeting requirements of AS/NZS 1715/1716 if dust exposure is likely.



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

- 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
- Hygiene Precautions:** 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

Appearance:	Powder
Odour:	Characteristic
Specific Gravity:	N/A
Solubility in Water:	Partially Soluble
Melting Point:	Not Available
Boiling Point:	Not Available
Freezing Point:	Not Available
Vapour Pressure:	Not Available
Vapour Density:	Not Available

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage
Hazardous Polymerisation:	Will not occur
Materials to Avoid:	Avoid Acids

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Section 11: TOXICOLOGICAL INFORMATION

Hazardous Classifications:	6.1D, 6.1E, 6.3A, 6.4A, 6.5B, 6.8B, 6.9A, 8.3A				
Ingestion:	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				
Inhalation:	Irritant. May cause coughing, shortness of breath, nausea. Risk of sensitisation and dermatitis.				
Skin:	Irritant. May cause dermatitis. Risk of sensitisation.				
Eye:	Corrosive to ocular tissue.				
Chronic Effects:	May be harmful to cardiovascular, alimentary, hepatic and renal systems. Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.				
Toxicological Data:	No LD50 data available for the product. However, Exposure Standard(s) for constituent(s): <table><tr><td>Zinc Sulphate:</td><td>Oral LD50 (Mouse) 1891 mg/kg</td></tr><tr><td>Copper Sulphate:</td><td>Oral LD50 (rat) 960 mg/kg</td></tr></table>	Zinc Sulphate:	Oral LD50 (Mouse) 1891 mg/kg	Copper Sulphate:	Oral LD50 (rat) 960 mg/kg
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Section 12: ECOLOGICAL INFORMATION

Hazardous Classifications:	9.1A, 9.3B
Ecotoxicity:	Very ecotoxic in the aquatic environment, Harmful to terrestrial vertebrates
Bioaccumulation	Not likely to Bi-accumulate
Toxicological Data:	No values assigned for this specific material

Section 13: DISPOSAL INFORMATION

Product Disposal:	Dispose in accordance with all applicable regulations. It is the responsibility of the user of the product to determine, at the time of disposal
Container Disposal:	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.

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Section 14: TRANSPORT INFORMATION

Relevant Information: Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

Rail / Road; Sea (IMDG Code); Air (ICAO / IATA):

UN Number: 3077
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.
[Contains Zinc Sulphate]
DG Class: 9
Packing Group: III
Marine Pollutant: Yes

Other Information: Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation

Section 15: REGULATORY INFORMATION


HSNO: This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval number HSR002571

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown at the top of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

CONTROL REGISTER

VERSION #	DATE OF RELEASE	ISSUED TO	APPROVED BY	AMMENDMENTS	NEXT REVIEW DUE
1	15/02/2017	Shared Drive	 Aaron Murray	New Format	Jan 2022