

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Magnesium Sulphate Horticultural Grade**
 Item Code:
 Product Use: Fertiliser
 Restriction of Use: Refer to Section 15

 New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury, 2113

 Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

 Date of SDS Preparation: 9 October 2020

Section 2. Hazards Identification

Not classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Magnesium sulphate heptahydrate	>98	10034-99-8

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice/attention.
 If on Skin: Rinse skin with water/shower. If irritation continues seek medical advice.
 If Swallowed: Wash out mouth with water. Seek medical advice 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.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable.

Inhalation:	May be irritating to the respiratory system
Skin:	Not applicable.
Eyes:	Dust may cause slight irritation to the ocular mucous membranes due to mechanical action
Treatment:	Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from decomposition products	Magnesium oxide. Sulphur oxides
Suitable Extinguishing media	All extinguishing agents can be used.
Precautions for firefighters and special protective clothing	Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus. Cool down the containers exposed to heat with a water spray. Do not allow run-off from fire-fighting to enter drains or water courses.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear appropriate protective clothing. Exclude non-essential people from the area. Ventilate spillage area.

Do not allow product to spread into the environment.

Sweep up or vacuum up the product. Avoid creating or spreading dust. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Ensure good ventilation of the work station.
- Dust extraction (suction).
- Avoid contact with skin and eyes.
- Avoid the formation or spread of dust in the atmosphere.
- Do not eat, drink or smoke when using this product.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Precautions for Storage:

- Keep container tightly closed and dry.
- Store in a cool, well-ventilated place.
- Protect from light.
- Store away from incompatible materials such as strong bases, alkali metals and metallic powders.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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

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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. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

Engineering Controls

Ensure good ventilation of the work station. Extraction to remove dust at its source.

Personal Protection Equipment



Eyes	Safety goggles.
Skin	Nitrile-rubber protective gloves / PVC. Wear protective clothing.
Respiratory	In case of dust formation use respirator with filter: P1

Section 9 Physical and Chemical Properties

Appearance	Solid Crystalline powder.
Colour	White
Odour	Odourless
Odour Threshold	Not available
pH	~ 8 (Aqueous solution - 25°C)
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	The product is not flammable.
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.68 (20°C)
Water Solubility	Water: 710 g/l (20 °C)
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	> 150 °C
Kinematic Viscosity	Not available
Particle Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable at ambient temperature and under normal conditions of use
Hazardous Reactions	No dangerous reaction known under conditions of normal use
Conditions to Avoid	Water, humidity. High temperature.
Incompatible Materials	Strong bases. Alkali metals. Metallic powders.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable
Dermal	Not applicable

Inhalation	Not applicable
Eye	Not applicable
Skin	Not applicable

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Presents no particular risk to the environment.

Persistence and degradability	Not relevant for inorganic substances.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified
LC50 fish : 680 mg/l (Pimephales promelas, 96h) (Magnesium sulphate anhydrous)
EC50 Daphnia : 720 mg/l (Daphnia magna, 48h) (Magnesium sulphate anhydrous)

Section 13. Disposal Considerations



Disposal Method:

Triple rinse container and dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

Not classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 16 Other Information

Glossary

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

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UEL
WES

authority.
Upper Explosive Level
Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Issue Date: 9 October 2020 Review Date: 9 October 2025