



Safety Data Sheet

Magnesium Sulphate

UPDATED: 02 October 2020

Section 1: SUBSTANCE IDENTIFICATION & SUPPLIER

Product Name:	Magnesium Sulphate - Epsom Salts
Other Names:	Magnesium Sulphate Heptahydrate; Sulphuric Acid, Magnesium (II) Salt Heptahydrate; Epsom Salts; Epsotop; Bittersalz
Product Code:	0004010 (Technical/fertiliser grade) 8150010 (Animal Health grade)
Recommended Use:	Fertiliser Additive Animal Health product; a magnesium supplement for the prevention of magnesium deficiency in grazing livestock
Company Identification:	Morton Smith - Dawe Limited
Address:	396 Wigram Road, Halswell, Christchurch PO Box 37 - 139 Halswell
Customer Centre:	03 322 8117
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - Tell operator what service is needed: Fire, Ambulance or Police

Section 2: HAZARD IDENTIFICATION

Hazard Classification:	Not considered a hazardous substance by EPA
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Section 3: COMPOSITION IDENTIFICATION

INGREDIENT	CAS No.	CONTENT
Magnesium Sulphate Heptahydrate	10034-99-8	95-100%

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.
Routes of Exposure:	
If in eyes:	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor immediately.
If on skin	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
If ingested:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
If Inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Advice to Doctor:	No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Not applicable (non-flammable)
Hazardous Combustion Products:	Sulphur oxides, magnesium oxide
Extinguishing Media:	Based on surrounding materials
Protective Equipment:	Breathing apparatus plus protective gloves
HAZCHEM Code:	None allocated.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.


Methods and material for containment and cleaning up:

Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.

Section 7: HANDLING AND STORAGE

Handling:	<p>Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required.</p> <p>Approved Handler: Not required</p> <p>Tracking: Not required</p> <p>Record Keeping: Not required</p>
Storage:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409; Management of Agrichemicals.
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product.
Personal Protection Equipment: 	
Engineering Controls:	Handle in well-ventilated area. Avoid inhalation of dust.
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. Contaminated clothing should not be allowed out of the workplace.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Colourless crystal or white powder
Odour:	Odourless
Odour Threshold:	Not available
Gravity:	1.05
pH:	5-8 (50g/l in water @ 200C)
Boiling Point:	Not available
Melting Point:	Loses all waters of hydration at 2500C and decomposes at 1,1240C
Freezing Point	Not available
Flash Point:	Not applicable
Flammability:	Not Flammable
Upper and Lower Explosive Limits:	Not available
Vapour Pressure:	Not available
Vapour Density:	Not available
Water Solubility:	Very soluble
Partition Coefficient:	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10: STABILITY & REACTIVITY

Stability of Substance:	Stable but releases waters of crystallisation when heated. When stored appropriately this product should show no significant degradation for at least 5 years from the date of manufacture.
Hazardous Polymerisation:	Hazardous polymerisation is not likely to occur
Hazardous Decomposition Products:	Sulphur oxides
Conditions to Avoid:	High humidity
Materials to Avoid:	Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium, and calcium

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	Not considered a hazardous substance by EPA
Ingestion:	Ingestion of large quantities may lead to nausea, vomiting, diarrhoea, flushing of the skin, thirst hypertension, respiratory depression. May have a laxative effect.
Dermal:	Not applicable.
Inhalation:	Inhalation of dust may be irritating
Skin:	Non-irritant
Eye:	Not significantly irritating to the eye
Chronic Effects:	No information available
Reproductive Toxicity:	No reproductive effects
Mutagenicity:	Non-mutagenic
Carcinogenicity:	Not considered to be carcinogenic

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	Not considered a hazardous substance by EPA
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Section 13: DISPOSAL INFORMATION

Disposal Method:	Dispose of product only by using according to label or at an approved landfill. Recycle where possible. Do not contaminate bodies of water with chemical or empty container.
Container Disposal:	Triple rinse container. Triple rinsed 20 litre containers containing the Agrecovery logo on the label, and that are free of all residues and have an intact legible label, may be taken to an Agrecovery collection site for disposal. Burn in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise crush and bury in an approved landfill or recycle through an alternative approved recycling scheme. Do not burn container or use container for any other purpose.

Section 14: TRANSPORT INFORMATION

Transport Information:

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

Not regulated for transport of Dangerous Goods: UN, IMDG, IATA

UN Number:	N/A
Proper Shipping Name:	N/A DG Class: N/A
Subsidiary Class:	N/A
Packing Group:	N/A
Marine Pollutant:	No
MTQ (non-commercial):	N/A
HAZCHEM Code:	N/A
IERG Number:	N/A

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 allowable transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation.

Section 15: REGULATORY INFORMATION

EPA Approval Code:	Not considered a hazardous substance by EPA
ACVM:	Exempt from Registration under the ACVM Act 1997

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers 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 Morton Smith - Dawe, if further information is required.

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