

# Safety data sheet

## Magnesium Sulphate

**Morton Smith-Dawe**  
LIMITED



Updated 25 March 2015

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name: Magnesium Sulphate (Epsom Salts)

Other names: Magnesium Sulphate Heptahydrate; Sulphuric Acid, Magnesium (II) Salt Heptahydrate; Epsom Salts; Epsotop; Bittersalz

Chemical Formula:  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$

Recommended Use: Fertiliser

Company Identification:  
Address: Morton Smith-Dawe Ltd  
396 Wigram Road, Halswell, Christchurch  
PO Box 37-139, Halswell, Christchurch

Telephone Number: 03 322 8117

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Telephone Number: 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)

Transport Emergency Phone: 111 - tell operator what service is needed: Fire, Ambulance, Police

### Section 2: HAZARD INFORMATION

Hazard Classifications: Not considered a hazardous substance by EPA

### Section 3: COMPOSITION INFORMATION

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.

Inhalation: 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.

Ingestion:	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.
Skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
Eye:	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor 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

Flash Point:	Not applicable (non-flammable)
Combustion Products:	Sulphur oxides, magnesium oxide
Extinguishing Media:	Based on surrounding materials
Protective Equipment:	Breathing apparatus plus protective gloves
HAZCHEM Code:	Not applicable

#### Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	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.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

#### Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required.
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Approved Handler:	Not required
Tracking:	Not required
Record Keeping:	Not required

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.
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Other Information:	Always read the label before use. See label for further information on handling and storage.
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#### **Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

Exposure Limits:	No exposure limits have been assigned for this product.
Protective Equipment:	When contact with product is likely, wear protective gloves.
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 AND CHEMICAL PROPERTIES**

Appearance:	Colourless crystal or white powder
Odour:	Odourless Specific
Gravity:	1.05 pH: 5-8 (50g/l in water @ 200 C)
Solubility in Water:	Very soluble
Flash Point:	Not applicable (non-flammable) Melting Point Loses all waters of hydration at 2500 C and decomposes at 1,1240 C
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Melting Point:	Loses all waters of hydration at 2500 C and decomposes at 1,1240 C

#### **Section 10: STABILITY AND REACTIVITY**

Stability:	Stable. When stored appropriately this product should show no significant degradation for at least 5 years from the date of manufacture.
Hazardous Decomposition Products:	Hydrogen Chloride

Hazardous Polymerisation:	Hazardous polymerisation is not likely to occur
Materials to Avoid:	None
Conditions to Avoid:	High humidity

#### Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.4A, 6.9B
Ingestion:	Regarded as practically non-toxic but may be harmful if swallowed in large quantities
Inhalation:	Inhalation of dust may be irritating
Skin:	May be mildly irritating and may cause drying of the skin
Eye:	Irritating to the eyes
Chronic Effects:	Repeated exposure may damage lungs and respiratory system
Reproductive Toxicity:	No reproductive effects
Mutagenicity:	Non-mutagenic
Carcinogenicity:	Not considered to be carcinogenic

#### Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	Not considered an ecotoxic substance
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#### Section 13: DISPOSAL INFORMATION

Product Disposal:	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:	Burn container in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise bury in an approved landfill. Do not 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.
RAIL/ROAD; SEA (IMDG Code); AIR (ICAO/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

ACVM:	Exempt from Registration under the ACVM Act 1997
EPA:	Approved pursuant to the HSNO Act 1996, Approval number: HSR006644 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.

#### Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown on page 1 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.