



MATERIAL SAFETY DATA SHEET

PRODUCT: ESPOM SALT (MAGNESIUM SULPHATE)

Date of Issue: 1 DEC 2016

Valid until: 1 DEC 2021

GHS Format

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: Manutec Epsom Salt or Magnesium Sulphate

Other names: None

Manufacturer's code: MBP1105/MTO0588

Recommended use: as a trace element fertiliser to overcome Magnesium deficiency in plants

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD

Address: 30 Jonal drive, Cavan, South Australia 5094

Telephone No:+61-8-8260 2277 **Fax:**+61-8-8260 2399

Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

Poisons Schedule (Aust)

Not scheduled

Hazard Classification:

NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories:

None specified

Pictograms:

None specified

Signal Word:

None specified

Hazard Statements:

None specified

Precautionary Statements:

None specified



National Transport Commission (Australia)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Magnesium Sulphate Heptahydrous	10034-99-8	100.00 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention
Eye	Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.
Skin	Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.
Inhaled	Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.
Advice to Doctor	Treat symptomatically based on individual reactions of patient and judgement of doctor.

Medical Conditions Aggravated by Exposure

No information available on medical conditions which are aggravated from exposure to this product

5. FIRE FIGHTING MEASURES

General Measures

Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

Flammability Conditions

Product is a non-flammable solid.

Extinguishing Media

Water, dry powder, foam, carbon dioxide.

Hazardous Products of Combustion

Heating to dryness will produce obnoxious and toxic fumes.

Special Fire Fighting Instructions

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment

Personal Protective Equipment

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point

No Data Available

Lower Explosion Limit

No Data Available

Upper Explosion Limit

No Data Available

Auto Ignition Temperature

No Data Available

Hazchem Code

No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure

Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.

Clean Up Procedures

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

Decontamination Rinse affected area with plenty of water.

Environmental Precautionary Measures

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

7. HANDLING AND STORAGE

Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container

Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for inspirable dust) and 3mg/m ³ (for respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	
	RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716).
	EYES: Safety glasses with side shields (AS1336/1337).
	HANDS: Wear rubber or plastic gloves (AS2161).
	CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline Powder
Odour	Almost odourless
Colour	White
pH	6 - 8
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	200oC
Melting Point	150oC
Freezing Point	No Data Available
Solubility	70 g / 100 cc (20 ?) - 91 g / 100 cc (40 ?)
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	1.08

10. STABILITY AND REACTIVITY

General Information	Product is a non-flammable solid.
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Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, generating dust, direct sunlight, moisture and high temperatures.
Materials to Avoid	Incompatible with strong oxidising agents, bases, mineral acids and sources of ignition.
Hazardous Decomposition Products	
Main combustion gas: sulfur oxides (SO _x), metal oxides.	
Hazardous Polymerisation	
Hazardous Polymerisation has not been reported.	

11. TOXICOLOGICAL INFORMATION

Eye/Irritant	Mild eye irritation may result.
Ingestion	Acts like a laxative. Ingestion of sufficient quantities may lead to heart changes, flaccid paralysis & cyanosis.
General Information	
Skin:	Not sensitizing
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC ₅₀ (<i>Gambusia affinis</i> , 24 hours): 15500 mg/l Crustacea EC ₅₀ (<i>Daphnia magna</i>): 1700 mg/l Algae EC ₅₀ (<i>Scenedesmus subspicatus</i>): 2700 mg
Persistence/Degradability	Not biodegradable.
Mobility	Completely miscible in water.
Environmental Fate	Do NOT allow product to reach waterways, drains and sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

14. TRANSPORT INFORMATION

Land Transport (Australia)	
Proper Shipping Name	Magnesium Sulphate Heptahydrate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available



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15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not scheduled

National/Regional Inventories

Australia (AICS) Listed

16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIMER:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.

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