

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Epsom Salt

Other Identifier: Magnesium Sulfate

Recommended Use: Soaking

Supplier: Midland Chemicals
ABN: 91 622 018 986

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Facsimile: +61 08 9250 1710

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Road and Rail; Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Globally Harmonised System

Hazard Classification

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

Poisons Schedule: Not scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion
Magnesium Sulfate, Heptahydrate	10034-99-8	<=100%

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4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Ingestion: IF SWALLOWED: Rinse mouth, then drink plenty of water. If vomiting occurs, drink further water. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult.

Medical attention and special treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible; Material does not burn.

Suitable Extinguishing Media: If material is involved in a fire, use dry chemical, Carbon dioxide, foam or water spray for extinction.

Fire and Explosion Hazard No information available.

Hazardous combustion products: Fire or heat will produce irritating and/or toxic fumes, including oxides of Sulfur, Magnesium oxide.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may pollute waterways.

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Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (fire kit).
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

Personal precautions:	Use personal protective equipment as required (see SECTION 8).
General response procedure:	Ensure adequate ventilation. Do not touch or walk through spilled material - Slippery when spilt. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean up procedure:	Collect material (vacuum or sweep up) and place into suitable containers for later disposal (see SECTION 13); if appropriate, moisten first to prevent dusting.
Containment:	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination:	Wash area down with excess water.
Environmental Precautions:	Prevent entry into drains and waterways.
Evacuation Criteria:	Spill or leak area should be isolated immediately. Keep unauthorised personnel away; Keep upwind.

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

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Conditions for safe storage:

Store in a cool, dry and well-ventilated place. Keep container tightly closed when not in use - check regularly for spills. Keep away from incompatible materials (acids, strong oxidising agents).

Keep in the original container.

Precautions for safe handling:

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General

No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: - Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).

Exposure limits:

No Data Available

Biological limits

No information available on biological limit values for this product.

Engineering Controls

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. Ensure ventilation is adequate to maintain air concentrations below workplace exposure standards.

Personal Protective Equipment

Respiratory protection: In case of inadequate ventilation or if an inhalation risk exists, wear respiratory protection.

Eye/face protection: Wear appropriate eye protection to avoid eye contact.

Hand protection: Handle with gloves..

Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact.

The type of protective equipment must be selected according to the concentration and amount of the hazardous substance(s) at the specific workplace.

Eye and Face

Recommended: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin

Recommended (full/splash contact): Impervious gloves, e.g. Nitrile rubber

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Respiratory	(Minimum layer thickness: 0.11 mm; Break through time: 480 min) Recommended: Overalls, safety shoes. Recommended: Type P1 dust mask/respirator
Special Hazards Precautions	No information available.
Work Hygienic Practices	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid Crystal/powder
Colour:	white/clear
Auto Ignition temperature:	No Data Available
Decomposition Temperature:	No Data Available
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Flash Point:	No Data Available
Initial Boiling Point:	No Data Available
Melting Point:	No Data Available
Freezing Point	No Data Available
Odour:	Odourless
Odour Threshold:	No Data Available
Partition coefficient: n-octanol/water	No Data Available
pH:	6-8
Relative Density:	No Data Available

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Solubility:	No Data Available
Upper Flammability Limit	No Data Available
Lower Flammability Limit:	No Data Available
Explosive limits:	No Data Available
Vapour density:	No Data Available
Vapour pressure;	No Data Available
Viscosity:	No Data Available
Biopersistence:	No Data Available
Crystallinity:	No Data Available
Dustiness:	No Data Available
Particle size:	No Data Available
Redox potential:	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	Non-combustible; Material does not burn.
Reactions That Release Gases or Vapours	Fire or heat will produce irritating and/or toxic fumes, including oxides of Sulfur, Magnesium oxide.
Release of invisible flammable vapours and gases	No Data Available
Saturated Vapour Concentration	No Data Available

10. STABILITY AND REACTIVITY

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General Information: No information Available
Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Avoid dust generation.

Incompatible materials: Incompatible/reactive with acids, strong oxidising agents.

Hazardous decomposition products: Fire or heat will produce irritating and/or toxic fumes, including oxides of Sulfur, Magnesium oxide.

Hazardous reactions or Polymerisation: No Information Available

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

General Information Information on possible routes of exposure: - Ingestion: May cause a laxative effect if swallowed. - Eye contact: The dust may cause (physical) eye irritation due to particulate nature. - Skin contact: May cause skin irritation. - Inhalation: he dust may cause respiratory irritation.

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility No information available.

Environmental Fate Prevent entry into drains and waterways.

13. DISPOSAL CONSIDERATIONS

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Disposal methods: 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. Or refilled at Big Bubble in Midvale.

14. TRANSPORT INFORMATION

Road and Rail Transport Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

UN number: No Data Available

Proper shipping name; Magnesium sulfate, heptahydrate

DG Class No Data Available

Packing group No Data Available

Environmental hazards for transport purposes No Data Available

Special Precaution for user No Data Available

Hazchem No Data Available

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not scheduled

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16. OTHER INFORMATION

Revision date: 28/05/2020

Reason for issue: Update SDS

Key/Legend:

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO₂ Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

g Grams

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH₂O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

ltr or **L** Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre **mmH₂O** Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Health and Safety Commission

OECD Organisation for Economic Co-operation and Development

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

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ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value per Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Midland Chemicals control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.