



Infosafe No™	1CHH3	Issue Date : February 2019	RE-ISSUED by CHEMSUPP
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Product Name : **MAGNESIUM SULFATE Dried**

Not classified as hazardous

1. Identification

GHS Product Identifier MAGNESIUM SULFATE Dried

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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SA 5013 Australia

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Recommended use of the chemical and restrictions on use Fireproofing, textiles, mineral waters, catalyst carrier, ceramics, fertilizers, paper, cosmetic lotions, dietary supplement, antacid, laxative and laboratory reagent.

Other Names**Name****Product Code**

MAGNESIUM SULFATE Dried LR
Epsom salts, Bitter salts, Magnesium sulfate anhydrous

ML073

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Not classified as hazardous according to the criteria of Hazardous Substances Information System (HSIS), Safe Work Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients**Chemical** Solid**Characterization**

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Magnesium sulfate	7487-88-9	60-100 %		

4. First-aid measures

Inhalation Remove to fresh air and if discomfort persists, seek medical assistance.

Ingestion Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting.

Skin Remove any contaminated clothing. Wash the affected area with water, then soap and water for at least 15 minutes. If irritation develops or persists, seek medical advice.

Eye contact Wash thoroughly with running water. If irritation develops, seek medical advice.

5. Fire-fighting measures**Specific Methods** Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.**Specific hazards arising from the chemical** Material does not burn.**Decomposition Temp.** 1124 °C**6. Accidental release measures****Personal Protection** Wear protective clothing specified for normal operations (see Section 8)**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.



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7. Handling and storage

Conditions for safe storage, including any incompatibilities Keep containers securely sealed and protected against physical damage. Store in a cool, dry place. Store in well ventilated area.

8. Exposure controls/personal protection

Other Exposure Information No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.

Appropriate engineering controls In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

Respiratory Protection Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Footwear Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form Solid

Appearance Colourless crystals or white powder.

Decomposition Temperature 1124 °C

Solubility in Water 450 g/l (40 °C)

Solubility in Organic Solvents Soluble in glycerol. Sparingly soluble in alcohol.

Specific Gravity 2.66

pH ~ 7.9 (50 g/l, H₂O, 25 °C)

Vapour Pressure < 0.1 mmHg (20 °C)

Vapour Density (Air=1) < 0.01 g/l

Flammability Non combustible material.

Molecular Weight 120.37

10. Stability and reactivity

Chemical Stability Stable under ordinary conditions of use and storage.

Incompatible Materials Strong oxidising agents, ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.



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Hazardous Decomposition Products Sulfur oxides and magnesium oxide.**Hazardous Polymerization** Will not occur.**11. Toxicological Information****Ingestion** Magnesium salts are slowly absorbed. Symptoms may include abdominal pain, vomiting, diarrhea, flushing of the skin, thirst and hypotension. If elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes, hypocalcemia (deficiency of calcium in the blood) may occur.**Inhalation** Dust may be slightly irritating. Sore throat or coughing may occur. May be harmful.**Skin** No adverse effects expected but dust may cause minor skin irritation. May be harmful if absorbed through the skin.**Eye** No adverse effects expected but dust may cause mechanical irritation.**Chronic Effects** In general, this material is normally excreted rapidly from the body and only a small proportion of magnesium salts ingested are absorbed by the bloodstream. Cases of poisoning have arisen where these materials have been used medicinally and the patient has a damaged alimentary tract or impaired renal function, resulting in the rapid absorption of magnesium ions into the bloodstream. The central nervous system and gastrointestinal system are targeted.**12. Ecological information****Ecological Information** No ecological problems are to be expected when the product is handled and used with due care and attention.**13. Disposal considerations****Disposal Considerations** Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled**16. Other Information****Literature References** Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 18', Commonwealth of Australia, Canberra 2002.
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997.
National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.
South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.
Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 1997.
Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AusInfo, Canberra 1999.
Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo, Canberra 1999.
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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Safety Data Sheet

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Empirical Formula & MgSO₄

Structural Formula

...End Of MSDS...

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