



Infosafe No™	1CH44	Issue Date : June 2019	RE-ISSUED by CHEMSUPP
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Product Name : **MAGNESIUM SULFATE Heptahydrate**

Not classified as hazardous

1. Identification

GHS Product Identifier MAGNESIUM SULFATE Heptahydrate

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

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

Other Names

<u>Name</u>	<u>Product Code</u>
MAGNESIUM SULFATE Heptahydrate LR	ML048
MAGNESIUM SULFATE Heptahydrate AR	MA048
MAGNESIUM SULFATE Heptahydrate BP	MP048

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 Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia].
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization Solid

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Magnesium sulfate heptahydrate	10034-99-8	100 %		

4. First-aid measures

Inhalation Remove victim from exposure to fresh air. If any discomfort persists or rash develops, seek medical attention.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye contact Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products May emit toxic fumes in fire (sulfur oxides).

Specific Methods Use extinguishing media most appropriate for the surrounding fire.



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Specific hazards arising from the chemical Small fire: Use dry chemical, CO₂, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Precautions in connection with Fire Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal Wash to drain with a large volume of water or alternatively, sweep up and containerise for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling Avoid prolonged or repeated contact with skin, eyes and clothing . Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material. Use with adequate ventilation.

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.
Recommendation: Excellent: Nitrile, Neoprene, PVC. Poor: NR latex.

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 Clothing: Flame retardant protective clothing.
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; transparent crystals or white powder.

Odour Odourless.

Melting Point Heptahydrate: Loses 6H₂O @ 150 °C; Loses all water @ 250°C;



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Solubility in Water	Dried: Decomposes: 1124 °C. Soluble (246.48 g/L @ 20 °C).
Solubility in Organic Solvents	Soluble in glycerol. Sparingly soluble in alcohol.
Specific Gravity	Heptahydrate: 1.67 g/cm ³ .
pH	Heptahydrate: pH 5.0 - 8.0 (50 g/L, H ₂ O, 20 °C).
Vapour Pressure	Heptahydrate: < 0.133 hPa @ 20 °C
Flammability	Non combustible material.
Molecular Weight	Heptahydrate: 246.48

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Hygroscopic
Conditions to Avoid	Exposure to moisture. Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Strong oxidising agents, ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.
Hazardous Decomposition Products	Sulfur oxides and magnesium oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LDLo (mouse): 5000 mg/kg (anhydrous)
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. Symptoms may include sore throat or coughing.
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.
Carcinogenicity	No evidence of carcinogenic properties.
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.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	No ecological data available for this product.
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13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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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.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information



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**Literature
References**

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Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula Heptahydrate: MgSO₄.7H₂O
Dried: MgSO₄ (H₂O)_x
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