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| Infosafe No™ | 1CH41 | Issue Date : August 2020 | RE-ISSUED by CHEMSUPP |
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Product Name : **MAGNESIUM HYDROXIDE**

Classified as hazardous

1. Identification

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| GHS Product Identifier | MAGNESIUM HYDROXIDE | |
| Company Name | CHEM-SUPPLY PTY LTD (ABN 19 008 264 211) | |
| Address | 38 - 50 Bedford Street GILLMAN SA 5013 Australia | |
| Telephone/Fax Number | Tel: (08) 8440-2000 | |
| Emergency phone number | CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International) | |
| Recommended use of the chemical and restrictions on use | Intermediate for obtaining magnesium metal, sugar refining, medicine (antacid, laxative), residual fuel oil additive, sulfite pulp, uranium processing, denitrifices, drying agent in foods, colour retention agent, frozen desserts and laboratory reagent. | |
| Other Names | <u>Name</u> MAGNESIUM HYDROXIDE LR Milk of magnesia, Magnesia magma, Magnesium hydrate | <u>Product Code</u> ML010 |

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

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| GHS classification of the substance/mixture | Eye Damage/Irritation: Category 2 Skin Corrosion/Irritation: Category 2 SPecific Target Organ Toxicity - Single Exposure Category 3 |
| Signal Word (s) | WARNING |
| Hazard Statement (s) | H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. |
| Pictogram (s) | Exclamation mark |



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| Precautionary statement – Prevention | P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary statement – Response | P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. |
| Precautionary statement – Storage | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. |



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Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

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| Chemical Characterization | Solid | | | | |
| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> | <u>Hazard Symbol</u> | <u>Risk Phrase</u> |
| | Magnesium hydroxide | 1309-42-8 | 100 % | | |

4. First-aid measures

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| Inhalation | If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. |
| Ingestion | Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting. In severe cases obtain medical attention. |
| Skin | If persistent irritation occurs, obtain medical attention. Wash affected area thoroughly with soap and water. |
| Eye contact | Wash with large amounts of water (luke warm if possible) for at least 15 minutes. Ask victim to look up and down and sideways to wash properly. If discomfort persists obtain medical attention. |
| First Aid Facilities | Maintain eyewash fountain and safety shower in work area. |
| Advice to Doctor | Treat symptomatically based on judgement of doctor and individual reactions of the patient. |
| Other Information | For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once. |

5. Fire-fighting measures

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| Hazards from Combustion Products | May liberate toxic fumes in fire. |
| Specific Methods | Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. |
| Decomposition Temp. | 350 °C |
| Precautions in connection with Fire | Wear SCBA and structural firefighter's uniform. |

6. Accidental release measures

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| Personal Precautions | Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. |
| 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. |

7. Handling and storage

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| Precautions for Safe Handling | Avoid substance contact and generation and inhalation of dust. Wear protective clothing specified for normal operations (see Section 8) |
| Conditions for safe storage, including any incompatibilities | Store in a cool, dry place. Store away from acids. Keep containers closed at all times. |

8. Exposure controls/personal protection

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| Other Exposure Information | These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. |
| Appropriate engineering controls | 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. |



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| 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 | Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. |
| 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

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| Form | Solid |
| Appearance | White powder. |
| Odour | Odourless. |
| Decomposition Temperature | 350 °C |
| Solubility in Water | Almost insoluble. |
| Specific Gravity | 2.36 |
| pH | pH 9.5-10.5 (aqueous suspension) |
| Flammability | Non combustible material. |
| Molecular Weight | 58.33 |
| Other Information | Soluble in solution of ammonium salts and dilute acids. Almost insoluble in alcohol. Absorbs CO ₂ in the presence of water. |

10. Stability and reactivity

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| Chemical Stability | Stable, absorbs carbon dioxide from air. |
| Incompatible Materials | Strong acids, strong oxidizing agents, phosphorus, anhydrides, powdered metals. |
| Hazardous Decomposition Products | May liberate toxic fumes in fire. |
| Hazardous Polymerization | Will not occur. |

11. Toxicological Information

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| Acute Toxicity - Oral | LD50 (rat): 8500 mg/kg |
| Ingestion | May be harmful swallowed. May cause irritation to digestive tract. May cause CNS depression and respiratory paralysis which can be fatal. |
| Inhalation | Irritating to respiratory system. Symptoms may include coughing, sore throat, laboured breathing and chest pain. |
| Skin | Causes skin irritation with redness and pain. |
| Eye | Causes eye irritation, redness and pain. |



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Carcinogenicity No evidence of carcinogenic properties.**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Ecotoxicity** Quantitative data on the ecological effect of this product are not available.**Persistence and degradability** Methods for the determination of biodegradability are not applicable to inorganic substances.**Short Summary of Assessment of Environmental Impact** Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled and used with due care and attention. If the product does not react to form water-soluble compounds, then - due to the poor solubility - no ecological problems are to be expected.**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.**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** All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.**Poisons Schedule** Not Scheduled**16. Other Information****Literature References** 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.**Empirical Formula & Structural Formula** Mg(OH)₂

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