Infosafe No™	1CH43	Issue Date : August 2018	RE-ISSUED by CHEMSUPP

Product Name : **MAGNESIUM OXIDE**

Not classified as hazardous

1. Identification

GHS Product Identifier: MAGNESIUM OXIDE

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

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Recommended use of the chemical and restrictions on use: Refractories, especially for steel furnace linings, polycrystalline ceramic for aircraft windshields, electrical insulation, pharmaceuticals and cosmetics, inorganic rubber accelerator, oxychloride and oxysulfate cements, paper manufacture, fertilizers, removal of sulfur dioxide from stack gases, adsorption and catalysis, semiconductors, pharmaceuticals, food and feed additive and laboratory reagent.

Other Names

Name	Product Code
Magnesia	
MAGNESIUM OXIDE Light AR	MA030
Magnesium Oxide Heavy LR	ML035

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: Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization: Solid

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Magnesium oxide	1309-48-4	100 %		

4. First-aid measures

Inhalation: If inhaled, remove from contaminated area to fresh air immediately. Get medical aid if cough or other symptoms appear.

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: Remove any contaminated clothing and wash the affected area with water, then soap. If rash or soreness develops, seek medical advice.

Eye contact: Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.

First Aid Facilities: Eye wash station, safety shower and normal washroom facilities.

Advice to Doctor: Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Treat symptomatically. This material is of low toxicity and is normally excreted by the body, but persons with a damaged alimentary tract or impaired renal function may be at risk.

Other Information: For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

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. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

6. Accidental release measures

Personal Precautions	Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Conditions for safe storage, including any incompatabilities	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

Occupational exposure limit values

Name	STEL		TWA		
	mg/m3	ppm	mg/m3	ppm	Footnote
Magnesium oxide			10		

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. A time weighted average (TWA) has been established for Magnesium oxide (fume) (Worksafe Aust) of 10 mg/m3. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
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 and 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	White powder.

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Odour	Odourless.
Melting Point	2800 °C
Boiling Point	3600 °C
Solubility in Water	Slightly soluble in water.
Solubility in Organic Solvents	Soluble in acids and ammonium salt solution.
Specific Gravity	MgO light, 130g/L; MgO heavy, 350g/L
pH	10.3 (saturated solution)
Density	3.58 g/ml
Flammability	Non combustible material.
Molecular Weight	40.30

10. Stability and reactivity

Incompatible Materials	Reacts violently with chlorine trifluoride, bromine pentafluoride and phosphorus pentachloride. Also avoid acids and interhalogens.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if swallowed. Rapid absorption of magnesium ions into the blood stream. Symptoms may include flushing of the skin, thirst, hypotension, loss of reflexes, and respiratory depression.
Inhalation	May causes irritation to the respiratory system and nasal passage. Inhalation may cause a flu-like illness with symptoms such as chills, fever, aching muscles, dryness in the mouth and throat and headache.
Skin	May causes irritation in contact with skin.
Eye	May cause irritation to eyes.
Carcinogenicity	No evidence of carcinogenic effects.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	Methods for the determination of biodegradability are not applicable to inorganic substances.
Ecotoxicity	Quantitative data on the ecological effect of magnesium oxide are not available.
Information on Ecological Effects	Due to the poor solubility of magnesium oxide no harmful effects on plants and aquatic organisms are 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	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

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. 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 fot 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 Substances 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: 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 O
Other Information	Previously labelled as: S22 Do not breathe dust. ...End Of MSDS...