

Material Safety Data Sheet

MAGNESIUM HYDROXIDE

Section 1 - Product Identification

Product Name : Magnesium Hydroxide
CAS No. : 1309-42-8
Synonym : Magnesium dihydroxide, Milk of magnesia
Company Identification : Tradeasia International Pte. Limited
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Section 2 - Composition/Information on Ingredients

Substances

Name of substance	Magnesium Hydroxide
Identifiers	
CAS No	1309-42-8
Molecular formula	Mg(OH) ₂
Molar Mass	58.32 g/mol

Section 3 - Hazardous Ingredients & Occupational Exposure Limits

Classification of the substances or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Label Elements

GHS Label elements, including precautionary statements

Hazard Pictogram(s):



Signal Word: Warning

Hazard Statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards Not Otherwise Classified: None known.

Section 4 – First-Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Ingestion: If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Notes to physician: No specific treatment. Treat symptomatically.

Section 5 – Employee Protection

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Magnesium oxide

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Do not let product enter drains.

Methods and Materials for Containment and Cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Storage class (TRGS 510): Non Combustible Solids

Section 8 – Exposure Controls/Personal Protection (later)

Exposure Limits/Guidelines: Contains no substances with occupational exposure limit values.

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Solid

Appearance: white

Odor: odorless

pH: 9.5-10.5 (slurry)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 350 deg C

Decomposition Temperature: 350 deg C

Solubility: Insoluble in water.

Specific Gravity/Density: 2.36 (water=1)

Other data

No data available

Section 10 – Stability and Reactivity

Reactivity: This material is not reactive under normal ambient conditions.

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of Hazardous Reactions: : Violent reaction with: Acids, Strong oxidizer

Conditions to Avoid: Keep away from heat. Decomposition takes place from temperatures above: >320 °C.

Incompatible Materials: Strong oxidizing agents, Strong acids

Hazardous Decomposition Products: In the event of fire: see section 5

Hazardous polymerization: No data available.

Section 11 – Toxicological Information

Acute toxicity: LD50 Oral - Rat - 8,500 mg/kg

Serious eye damage/eye irritation: Eyes – Rabbit, Result: Moderate eye irritation

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65..

Reproductive toxicity: No data available

Specific target organ toxicity following single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity following repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects

Eye contact: Causes eye irritation.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Skin Contact: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Excessive amounts of magnesium may cause central nervous system depression, respiratory paralysis, and cardiac.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Additional Information RTECS: OM3570000

Section 12 – Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

Section 13 – Disposal Considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. **Contaminated packaging**

Dispose of as unused product.

Section 14 – Transport Information

DOT/TDG/IATA:

Not regulated

Additional Information:

No data available

Section 15 – Regulatory Information

1. US Federal regulations

TSCA: CAS# 1309-42-8 is listed on the TSCA inventory.

CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ.

SARA 313: No chemicals are reportable under Section 313.

2. International regulations

CANADA

CAS# 1309-42-8 is listed on Canada's DSL List.

EU-Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 1309-42-8: 1

3. National regulations

No data available

4. US State regulations

MAGNESIUM HYDROXIDE

State or local regulations	CAS# 1309-42-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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