

Section 1. Product and Company Identification

Product Name Magnesium Hydroxide
CAS Number 1309-42-8

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

(914) 654-6800 **(914) 654-6899**

parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Skin irritation: Category 2

Eye irritation: Category 2A

Specific target organ toxicity - single exposure: Category 3

GHS Label Elements

Pictograms:



Signal word: Warning

Hazard and precautionary statements

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/ vapors/ spray.

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

OSHA Hazards: Irritant

Target Organs: None Known



Potential Health Effects

Eyes: Causes eye irritation.

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

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

Ingestion: May be harmful if swallowed.

NFPA Ratings

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard: Not Available

HMIS Ratings

Health: 1

Fire: 0

Reactivity: 0

Personal: E

Section 3. Composition / Information on Ingredients

Common Name Magnesium Hydroxide

Formula Mg(OH)₂

CAS Number 1309-42-8

COMPONENT	CAS NUMBER	CONCENTRATION
Magnesium Hydroxide	1309-42-8	100%

Section 4. First Aid Measures

Eyes: In case of eye contact, rinse with plenty of water and seek medical attention if necessary.

Inhalation: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

Section 5. Firefighting Measures

Suitable (and unsuitable) extinguishing media: Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.

Special protective equipment and precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.



Specific hazards arising from the chemical: Emits toxic fumes (magnesium oxide) under fire conditions. (See also Stability and Reactivity section).

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Section 7. Handling and Storage

Precautions for safe handling: See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities: Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

Section 8. Exposure Controls / Personal Protection

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

Eyes: Wear chemical safety glasses with side shields or goggles.

Inhalation: Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Skin: Wear nitrile or rubber gloves, apron or lab coat.

Other: Not Available

Other Recommendations: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.): White powder, pellets, or solid.

Odor: Not Available

Odor threshold: Not Available

pH: 9.5 - 10.5

Melting point/freezing point: 350°C (662°F)

Initial boiling point and boiling range: Not Available

Flash point: Not Flammable



Evaporation rate: Not Available
Flammability (solid, gas): Not Flammable
Upper/lower flammability or explosive limit: Not Explosive
Vapor pressure: Not Available
Vapor density: Not Available
Density: 2.360 g/cm³
Solubility (ies): Soluble
Partition coefficient: n-octanol/water: Not Available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available

Section 10. Stability and Reactivity

Chemical Stability: Stable
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: Not Available
Incompatible Materials: Strong oxidizing agents, strong acids
Hazardous Decomposition Products: Magnesium oxide

Section 11. Toxicological Information

Acute Toxicity

Skin: Not Available
Eyes: Eyes - rabbit - Moderate eye irritation
Respiratory: Not Available
Ingestion: LD50 Oral - rat - 8,500 mg/kg

Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin: Irritation, redness, itchiness.
Eyes: Irritation, redness, watering eyes, itchiness.
Respiratory: Irritation, coughing, wheezing.
Ingestion: Irritation, nausea, vomiting, diarrhea.



Chronic Toxicity: Not Available
Teratogenicity: Not Available
Mutagenicity: Not Available
Embryotoxicity: Not Available
Specific Target Organ Toxicity: Inhalation - May cause respiratory irritation.
Reproductive Toxicity: Not Available
Respiratory/Skin Sensitization: Not Available

Section 12. Ecological Information

Ecotoxicity

Aquatic Vertebrate: Not Available
Aquatic Invertebrate: Not Available
Terrestrial: Not Available
Persistence and Degradability: Not Available
Bioaccumulative Potential: Not Available
Mobility in Soil: Not Available
PBT and vPvB Assessment: Not Available
Other Adverse Effects: Not Available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

US DOT: Not Dangerous Goods
TDG: Not Dangerous Goods
IMDG: Not Dangerous Goods
Marine Pollutant: No
IATA/ICAO: Not Dangerous Goods

Section 15. Regulatory Information

TSCA Inventory Status: All ingredients are listed on the TSCA inventory.
DSCL (EEC): All ingredients are listed on the DSCL inventory.
California Proposition 65: Not Listed
SARA 302: Not Listed
SARA 304: Not Listed
SARA 311: Magnesium hydroxide
SARA 312: Magnesium hydroxide
SARA 313: Not Listed
WHMIS Canada: Not Listed



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 6/16/2015

