



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Magnesium Hydroxide
- Product Number: MH-20260217
- Brand: SIGALD
- CAS-No.: 1309-42-8
- Synonyms: Magnesium dihydroxide; Milk of magnesia (aqueous suspension)

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses & Restrictions

- **Identified Uses:** Flame retardant (plastics/rubber), food additive (antacid/buffering agent), pharmaceutical antacid, water treatment flocculant, agricultural soil conditioner.
- **Uses Advised Against:** Mixing with strong acids (exothermic reaction); excessive use as antacid (magnesium overdose risk).

### SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2)  
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation)
- Precautionary Statements: P264, P280, P305+P351+P338, P337+P313

2.3 Physical/Chemical Hazards: Non-combustible; excellent flame retardant; reacts exothermically with strong acids; decomposes at >350°C to MgO+H<sub>2</sub>O (no explosive risks).

2.4 Health Hazards: Mild skin/eye irritation; dust inhalation may cause temporary respiratory irritation; oral ingestion (small amounts) is non-toxic (antacid use).

2.5 Environmental Hazards: Low aquatic toxicity; Mg is an essential nutrient; hydroxide ion neutralizes acidic water/soil; no bioaccumulation/persistence.

### SECTION 3: Composition

- **Substance/Mixture:** Pure Substance
- **Main Component:** Magnesium Hydroxide (≥98.0%, CAS:1309-42-8)



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- **Formula:** Mg(OH)<sub>2</sub>
- **Molecular Weight:** 58.32 g/mol
- **Hazardous Ingredients:** None

## SECTION 4: First Aid Measures

- **Inhaled:** Move to fresh air. If coughing persists, drink water and consult a doctor if needed.
- **Skin Contact:** Rinse with running water for 5 mins; remove contaminated clothing and wash before reuse (moisturize skin if dryness occurs).
- **Eye Contact:** Rinse thoroughly with water for 10–15 mins (hold eyelids open); consult an ophthalmologist if irritation remains.
- **Swallowed:** Rinse mouth with water; no special treatment (food/pharm grade). Seek medical advice for large ingestions (magnesium overdose: diarrhea/nausea).

## SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, CO<sub>2</sub>, dry powder.
- **Special Hazards:** Non-combustible; excellent flame retardant (releases H<sub>2</sub>O at high temperature to cool materials); reacts exothermically with acids (no fire risk).
- **Firefighter Protection:** Wear standard fire gear; avoid inhalation of dust during fire (no toxic fumes).

## SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear nitrile gloves, safety goggles, and dust mask (large spills); avoid dust inhalation/skin-eye contact.
- **Cleanup Methods:** Sweep with inert materials (sand/vermiculite) and transfer to sealed HDPE containers; dampen powder to prevent dust during cleanup.
- **Environmental Precautions:** Contain large spills to prevent runoff; Mg(OH)<sub>2</sub> neutralizes acidic soil/water (no environmental harm).

## SECTION 7: Handling and Storage

- **Handling:** Operate in well-ventilated area; avoid dust inhalation/skin-eye contact; do not mix with strong acids (exothermic reaction).
- **Storage Conditions:** Cool, dry warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed moisture-proof packaging; avoid direct sunlight/high temperature ( $> 350^{\circ}\text{C}$ ).
- **Incompatibilities:** Strong acids (HCl/H<sub>2</sub>SO<sub>4</sub>), strong oxidizing agents, concentrated mineral acids.
- **Shelf Life:** 36 months (unopened, specified conditions).

## SECTION 8: Exposure Controls/Personal Protection

- **PPE:** Nitrile gloves + safety goggles (routine handling); N95 dust mask (bulk powder); lab coat (industrial use).
- **Engineering Controls:** Basic ventilation; dust collection system (bulk processing); fume hood (acid contact operations).
- **Occupational Exposure Limits:** No established limits (low toxicity).



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## SECTION 9: Physical and Chemical Properties

- Physical State: White crystalline powder (25°C)
- Odor: Odorless
- Solubility: Slightly soluble in water (0.009 g/100mL, 20°C); soluble in dilute acids
- pH (10% aq. suspension): 10.5–12.0 (strongly alkaline)
- Density: 2.36 g/cm<sup>3</sup> (25°C)
- Melting Point: Decomposes (>350°C)
- Flammability: Non-combustible (flame retardant)
- Hygroscopy: Slightly hygroscopic

## SECTION 10: Stability and Reactivity

- **Stability:** Chemically stable under normal storage/use (≤30°C, sealed); slightly hygroscopic (no degradation).
- **Hazardous Reactions:** Exothermic reaction with strong acids (no explosion); no hazardous reactions under normal use.
- **Decomposition Products:** Magnesium oxide + water (≥350°C; no toxic byproducts; H<sub>2</sub>O acts as flame retardant).

## SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat): >5000 mg/kg; Dermal LD<sub>50</sub> (Rabbit): >5000 mg/kg (non-toxic)
- Skin Irritation: Mild (Rabbit, 4h; reversible dryness); Eye Irritation: Moderate (Rabbit, 24h; reversible)
- No mutagenic/carcinogenic/reproductive toxic effects reported; FDA GRAS for food use.

## SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC<sub>50</sub>): >2000 mg/L (96h)
- Persistence: Slightly soluble in water; dissociates into Mg<sup>2+</sup> and OH<sup>-</sup> (natural ions)
- Bioaccumulative Potential: None (Mg is an essential nutrient for aquatic/terrestrial organisms)

## SECTION 13: Disposal Considerations

- **Product Waste:** Dispose via licensed facilities; can be used as agricultural soil conditioner (neutralizes acid soil) if unspoiled.
- **Packaging Waste:** Rinse with water; recycle as non-hazardous plastic/paper waste.

## SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Class/Packaging Group: N/A
- Marine Pollutant: No
- **Precautions:** Avoid moisture/collision/acid contact; keep sealed; dampen powder to prevent dust during transport (bulk).

## SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (GRAS, food additive E528), GB 1886.21-2021 (China food standard).



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- Not classified as a hazardous chemical; no EU SVHC listing; approved for pharmaceutical/food/industrial use.

### **SECTION 16: Other Information**

- **Revision Date:** 17 FEB 2026
- This MSDS applies to industrial/food/pharmaceutical grade magnesium hydroxide (unified hazard profile).



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NEWAY SINOPHC TECH