

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Hydroxide Technical Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Magnesium Hydroxide Technical Grade

Chemical Formula: $\text{Mg}(\text{OH})_2$

Molecular Weight: 58.32 g/mol

Synonyms: Milk of Magnesia, Magnesium Dihydroxide

2. Composition / Information on Ingredients

Chemical Name: Magnesium Hydroxide

CAS No.: 1309-42-8

Purity: $\geq 95\%$

Grade: Technical Grade

Hazardous Components: None classified as hazardous under normal conditions.

3. Hazards Identification

- **Hazard Classification:** Not classified as hazardous under GHS.

- **Physical Hazards:** Non-flammable, non-explosive.
 - **Health Hazards:** May cause mild irritation to eyes, skin, or respiratory tract.
 - **Environmental Hazards:** Not expected to cause environmental harm under normal use.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Get medical help if irritation occurs.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
 - **Ingestion:** Rinse mouth. Seek medical attention if symptoms develop.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or CO₂.
 - **Special Hazards:** Product is non-combustible. Heating may release water vapor.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- Avoid generating dust.
 - Sweep up and place in suitable containers for disposal.
 - Prevent material from entering drains or watercourses.
 - Wear appropriate protective equipment.
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7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Use with adequate ventilation.
 - **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Protect from moisture.
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established for magnesium hydroxide.
 - **Respiratory Protection:** Use a dust mask if dust formation is likely.
 - **Hand Protection:** Wear suitable gloves.
 - **Eye Protection:** Safety glasses with side shields.
 - **Hygiene Measures:** Wash hands after handling. Avoid inhalation of dust.
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9. Physical and Chemical Properties

- **Appearance:** White, odorless powder
 - **Odor:** Odorless
 - **pH (suspension):** 9.5 – 10.5
 - **Melting Point:** Decomposes before melting
 - **Solubility:** Slightly soluble in water
 - **Specific Gravity:** 2.36
 - **Boiling Point:** Not applicable
 - **Vapor Pressure:** Not applicable
 - **Flash Point:** Not applicable
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Excessive heat and moisture.
 - **Incompatible Materials:** Acids (may produce magnesium salts and water).
 - **Hazardous Decomposition Products:** None under normal use.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic.

- **Skin Irritation:** Mild, reversible irritation possible.
 - **Eye Irritation:** May cause mechanical irritation.
 - **Inhalation:** Prolonged exposure to dust may cause irritation.
 - **Chronic Effects:** No known chronic effects.
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12. Ecological Information

- **Ecotoxicity:** Not toxic to aquatic organisms.
 - **Persistence and Degradability:** Inorganic compound; stable in environment.
 - **Bioaccumulation:** Not expected.
 - **Mobility in Soil:** Low mobility.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Avoid discharge into the environment.
 - May be landfilled after neutralization if allowed by local authorities.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable
- **UN Proper Shipping Name:** Magnesium Hydroxide
- **Transport Hazard Class:** Non-hazardous material
- **Packing Group:** Not applicable
- **Marine Pollutant:** No
- **Environmental Hazards:** None known
- **Special Precautions for User:**
 - Avoid creating dust during loading and unloading.
 - Ensure containers are properly labeled and sealed to prevent leakage.

- Handle with care to prevent damage to packaging.
 - **Transport in Bulk (IMDG/IMO):** Not regulated.
 - **ADR/RID Classification:** Not classified as dangerous for road/rail transport.
 - **IATA Classification:** Not classified as dangerous goods for air transport.
 - **IMDG Classification:** Not classified as dangerous goods for sea transport.
 - **Additional Information:**
Magnesium Hydroxide Technical Grade is stable, non-flammable, and non-reactive under normal transport conditions. It can be safely transported in standard containers or bags, avoiding moisture and physical damage.
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15. Regulatory Information

- **Regulation:** Complies with applicable chemical safety regulations.
 - **Labeling Requirements:** No hazard label required.
 - **Safety Phrases:** S22 – Do not breathe dust. S24 – Avoid contact with skin.
 - **Chemical Inventory Status:** Listed in EINECS, TSCA, and REACH.
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16. Other Information

Disclaimer:

The information provided above is based on current knowledge and experience. It is intended to describe the product in terms of safety requirements and should not be construed as guaranteeing specific properties.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.