

Material Safety Data Sheet (MSDS)

Product Name: Super light Magnesium Oxide (0.10-0.13 gm/ml)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

- **Product Name:** Super Light Magnesium Oxide
- **Chemical Formula:** MgO
- **Molecular Weight:** 40.30 g/mol
- **Intended Use:** Industrial, pharmaceutical, food additive, cosmetics, ceramics, refractories.

2. Hazards Identification

- **GHS Classification:** Not classified as hazardous under normal handling.
- **Hazard Statements:** Dust may cause irritation to eyes, skin, and respiratory tract.
- **Precautionary Statements:** Avoid breathing dust. Use personal protective equipment (PPE).

3. Composition/Information on Ingredients

- **Substance Name:** Magnesium Oxide (MgO)
- **CAS No.:** 1309-48-4
- **EC No.:** 215-171-9
- **Purity:** > 99%

4. First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing difficulties persist, seek medical attention.
- **Skin Contact:** Wash thoroughly with water. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do.
- **Ingestion:** Rinse mouth with water. Seek medical advice if discomfort occurs.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Unsuitable Media:** None known.
- **Special Hazards:** Product is non-combustible. May react with acids to release heat.
- **Protective Equipment:** Wear self-contained breathing apparatus if in fire area.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective clothing, gloves, goggles.
- **Environmental Precautions:** Prevent dust dispersion into air. Avoid contamination of water bodies.
- **Clean-up Methods:** Sweep up, avoid raising dust, and place into suitable container.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Ensure good ventilation. Handle with care.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit (OEL):**
 - OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)
 - ACGIH TLV: 10 mg/m³ (inhalable fraction)
- **Respiratory Protection:** Use NIOSH-approved dust mask.
- **Eye Protection:** Safety goggles.
- **Skin Protection:** Protective gloves and clothing.

9. Physical and Chemical Properties

- **Appearance:** White, very light powder
- **Odor:** Odorless
- **Bulk Density:** 0.10–0.13 g/ml
- **Melting Point:** ~2852 °C
- **Boiling Point:** ~3600 °C
- **Solubility:** Slightly soluble in water, soluble in acids
- **pH (aqueous suspension):** ~10.3

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Acids, moisture, ammonium salts.
- **Hazardous Reactions:** Reacts with acids to release heat.
- **Hazardous Decomposition:** Magnesium hydroxide upon contact with water.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 2000 mg/kg (low toxicity)
- **Irritation:** Dust may irritate skin, eyes, and respiratory tract.

- **Carcinogenicity:** Not classified as carcinogenic.
 - **Other Effects:** Inhalation of high dust concentrations may cause “metal fume fever.”
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic or terrestrial organisms at normal concentrations.
 - **Persistence & Degradability:** Inorganic substance – not biodegradable.
 - **Mobility in Soil:** Low mobility.
 - **Bioaccumulation Potential:** Not expected.
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13. Disposal Considerations

- Dispose of in accordance with local/regional/national/international regulations.
 - Can be landfilled after solidification with inert materials.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as dangerous goods).
- **UN Proper Shipping Name:** Not applicable.
- **Transport Hazard Class:** Not regulated.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None known.
- **Special Precautions for User:** Avoid dust generation during loading/unloading. Use sealed packaging.
- **Transport in Bulk (IMDG/IBC Code):** Not applicable.
- **ADR/RID (Europe):** Not classified as hazardous for transport.
- **IMDG (Sea):** Not classified as marine pollutant.
- **ICAO/IATA (Air):** Not classified as hazardous.
- **Additional Notes:** Transport in tightly sealed, labeled containers. Ensure protection against moisture and mechanical damage during handling.

15. Regulatory Information

- **Regulation Compliance:**
 - OSHA (USA): Non-hazardous under normal handling.
 - REACH (EU): Listed.
 - TSCA (USA): Listed.
- Product is compliant with local and international chemical inventory listings.

16. Other Information

- **Abbreviations:** OSHA = Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; PEL = Permissible Exposure Limit.
- **Disclaimer:** The information provided is accurate to the best of our knowledge and is intended as guidance for safe handling, use, processing, storage, transportation, and disposal. It is not a warranty or quality specification.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.