

Material Safety Data Sheet (MSDS)

Product Name: Light Magnesium Oxide IP/BP/USP (0.20-0.30)

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 of the Company

- **Chemical Name:** Magnesium Oxide
- **Synonyms:** Light MgO, Magnesia
- **CAS Number:** 1309-48-4
- **Molecular Formula:** MgO
- **Molecular Weight:** 40.30 g/mol

2. Composition / Information on Ingredients

- **Main Component:** Magnesium Oxide (99–100%)
- **Impurities:** Trace levels of calcium carbonate or other inert materials (if any)

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous under normal handling
- **Potential Hazards:** May cause mild irritation to eyes, respiratory tract, or skin if exposed as dust

4. First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Seek medical attention if irritation continues.
- **Ingestion:** Rinse mouth. Seek medical advice in case of discomfort.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO₂.
- **Unsuitable Extinguishing Media:** None known.
- **Special Hazards:** Oxide may react with strong acids producing heat.

6. Accidental Release Measures

- Avoid creating dust. Sweep or scoop material into containers.
- Ventilate area and wash spill site after cleanup.
- Use appropriate personal protective equipment (PPE).

7. Handling and Storage

- **Handling:** Avoid inhalation and eye contact. Use in well-ventilated areas.
- **Storage:** Store in a dry, cool, and well-ventilated area. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use local exhaust ventilation if dust forms.
- **Personal Protective Equipment (PPE):**
 - Respiratory protection: Dust mask if necessary
 - Eye protection: Safety goggles
 - Skin protection: Gloves and protective clothing

9. Physical and Chemical Properties

- **Appearance:** White powder

- **Odor:** Odorless
- **pH:** 10–12 (in 1% aqueous solution)
- **Melting Point:** 2852°C
- **Boiling Point:** 3600°C
- **Solubility:** Slightly soluble in water; soluble in acids

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong acids, halogenated compounds
- **Hazardous Decomposition Products:** Magnesium salts when reacting with acids

11. Toxicological Information

- **Acute Toxicity:** Non-toxic under normal handling
- **Chronic Effects:** No known chronic effects
- **Irritation:** Can cause mild irritation to eyes and respiratory tract

12. Ecological Information

- **Environmental Impact:** Low toxicity to aquatic and terrestrial organisms
- **Biodegradability:** Not applicable
- **Mobility:** Insoluble in water, low mobility in soil

13. Disposal Considerations

- Dispose in accordance with local environmental regulations
- Do not discharge large quantities into waterways

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not classified as dangerous
- **Transport Hazard Class:** Not applicable

- **Packing Group:** Not applicable
- **Environmental Hazards:** No significant risk
- **Transport Precautions:**
 - Protect from moisture
 - Avoid transport in bulk with incompatible substances (acids)
 - Ensure containers are properly labeled and sealed
 - For air, sea, and road transport: Standard precautions for non-hazardous powders

15. Regulatory Information

- **Local Regulations:** Complies with Indian Chemical Regulatory Requirements
- **International Regulations:** Listed in various pharmacopeias (IP/BP/USP)
- **Hazard Symbols:** None required

16. Other Information

- The information provided is based on current knowledge and experience.
- The product should be used according to good industrial hygiene practices.
- Users must assess and control conditions of use to prevent exposure.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.