

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Oxide 90%

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:** Magnesia, MgO
- **CAS Number:** 1309-48-4
- **EC Number:** 215-171-9
- **Grade:** 90%

2. Composition / Information on Ingredients

Magnesium Oxide 90% is primarily composed of **Magnesium Oxide (MgO) – 90%**, with **10% of other naturally occurring impurities**.

3. Hazards Identification

- **Classification:** Not classified as hazardous under OSHA / GHS.
- **Potential Health Effects:**

- **Inhalation:** May cause respiratory irritation.
- **Skin contact:** May cause mild irritation.
- **Eye contact:** May cause mechanical irritation.
- **Ingestion:** Low toxicity; may cause gastrointestinal discomfort.

4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water; use moisturizer if irritation occurs.
- **Eye Contact:** Rinse with water for 15 minutes; consult a physician if irritation persists.
- **Ingestion:** Rinse mouth with water; do not induce vomiting; seek medical advice if needed.

5. Fire-Fighting Measures

- **Extinguishing Media:** Use water spray, dry chemical, or CO₂.
- **Special Hazards:** Magnesium oxide is non-flammable; avoid dust accumulation.
- **Protective Equipment:** Use self-contained breathing apparatus if necessary.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation; wear protective equipment.
- **Environmental Precautions:** Prevent release into water bodies.
- **Cleanup:** Sweep or vacuum dust; avoid creating dust clouds.

7. Handling and Storage

- **Handling:** Minimize dust formation; use local exhaust ventilation.
- **Storage:** Store in a dry, cool, well-ventilated area; keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation; dust collection systems.

- **Personal Protection:**
 - Respiratory protection: Dust mask
 - Eye protection: Safety goggles
 - Skin protection: Gloves, protective clothing
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9. Physical and Chemical Properties

- **Appearance:** White powder
 - **Odor:** Odorless
 - **pH:** 10–12 (saturated solution)
 - **Melting Point:** 2852 °C
 - **Boiling Point:** 3600 °C
 - **Density:** 3.58 g/cm³
 - **Solubility in Water:** Slightly soluble
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Moisture, high humidity.
 - **Incompatible Materials:** Strong acids, aluminum.
 - **Hazardous Decomposition Products:** None under normal conditions.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity
 - **Chronic Effects:** Prolonged inhalation may cause respiratory irritation
 - **Carcinogenicity:** Not classified as carcinogenic
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12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic life

- **Persistence and Degradability:** Not biodegradable
- **Bioaccumulative Potential:** Low
- **Mobility:** Insoluble in water, low mobility

13. Disposal Considerations

- Dispose in accordance with local regulations.
- Avoid release into water sources.
- Can be landfilled in controlled disposal sites.

14. Transport Information (DETAILED)

- **UN Number:** Not regulated (for non-hazardous solid magnesium oxide)
- **UN Proper Shipping Name:** Magnesium Oxide, not hazardous
- **Transport Hazard Class:** Not classified
- **Packing Group:** Not applicable
- **Environmental Hazards:** Non-hazardous for the environment
- **Transport in Bulk:** Not applicable
- **Special Precautions:**
 - Avoid dust generation during handling.
 - Store in tightly closed containers to prevent moisture uptake.
 - During transport, secure the product to prevent spillage.
 - For road transport, avoid overloading; use appropriate labeling ("Non-Hazardous").
 - For rail or sea transport, ensure containers are properly stacked and protected from water.

15. Regulatory Information

- Complies with Indian regulations for non-hazardous chemical substances.
- Not classified as hazardous under GHS.

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and intended to describe the product for safety requirements only. It is not a guarantee of product 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.