

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Oxide Feed Grade (85-87%)

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

- **Chemical Name:** Magnesium Oxide
- **Synonyms:** Magnesia, MgO
- **CAS Number:** 1309-48-4
- **Feed Grade Purity:** 85–87%
- **Use:** Feed additive for livestock, poultry, and aquaculture

2. Composition/Information on Ingredients

Magnesium Oxide Feed Grade contains **85–87% pure magnesium oxide** and 13–15% inert fillers. The product is intended for use as a feed additive and is not classified as hazardous.

3. Hazard Identification

- **Classification:** Not classified as hazardous under OSHA/GHS for feed-grade product.
 - **Potential Hazards:**
 - Eye irritation possible on contact with dust
 - Respiratory irritation on inhalation of high concentrations of dust
 - Prolonged skin contact may cause dryness or mild irritation
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4. First Aid Measures

- **Inhalation:** Move to fresh air; if symptoms persist, seek medical attention.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth; drink water. Do not induce vomiting. Seek medical advice if large amounts ingested.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam
 - **Unsuitable Extinguishing Media:** None known
 - **Special Hazards:** Non-flammable, but may react with strong acids producing heat and fumes
 - **Protective Equipment:** Self-contained breathing apparatus (SCBA) recommended
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6. Accidental Release Measures

- **Personal Precautions:** Use dust mask, gloves, and safety goggles
 - **Environmental Precautions:** Avoid entry into watercourses
 - **Methods for Cleanup:** Sweep up and collect in dry containers; avoid generating dust; vacuum with HEPA filter if possible
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7. Handling and Storage

- **Handling:** Avoid generating dust; use protective equipment
 - **Storage:** Store in a cool, dry, ventilated area, away from acids
 - **Shelf Life:** Stable under normal storage conditions
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** Not established; follow local regulations
 - **Engineering Controls:** Use dust extraction systems if necessary
 - **Personal Protective Equipment (PPE):**
 - Respiratory protection: Dust mask or respirator
 - Hand protection: Gloves
 - Eye protection: Safety goggles
 - Skin protection: Protective clothing
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9. Physical and Chemical Properties

- **Appearance:** White to off-white powder
 - **Odor:** Odorless
 - **pH (1% in water):** 10–12
 - **Melting Point:** 2800°C (decomposes)
 - **Boiling Point:** 3600°C
 - **Solubility:** Slightly soluble in water; soluble in acids
 - **Density:** ~3.58 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions

- **Incompatible Materials:** Acids, ammonium salts
 - **Hazardous Decomposition Products:** None under normal use
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11. Toxicological Information

- **Acute Toxicity:** Low
 - **Inhalation:** May cause respiratory irritation
 - **Skin Contact:** Mild irritation possible
 - **Eye Contact:** May cause irritation
 - **Ingestion:** Low toxicity; not expected to be harmful in feed doses
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12. Ecological Information

- Non-toxic to aquatic organisms in feed-use concentrations
 - Not expected to bioaccumulate
 - Insoluble in water, minimal mobility in soil
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13. Disposal Considerations

- Dispose in accordance with local environmental regulations
 - Avoid release into waterways
 - Can be disposed of as non-hazardous waste
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14. Transport Information (Detailed)

- **UN Number:** Not regulated for transport
- **UN Proper Shipping Name:** Magnesium Oxide Feed Grade
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** N/A

- **Environmental Hazards:** Non-hazardous for transport
 - **Transport Precautions:**
 - Ensure containers are tightly sealed
 - Avoid generating dust during handling and transport
 - Keep dry and protect from moisture
 - **Modes of Transport:**
 - **Road (ADR/RID):** Non-restricted
 - **Rail:** Non-restricted
 - **Sea (IMDG):** Non-hazardous
 - **Air (IATA):** Non-hazardous
 - **Special Instructions:** No special requirements; follow general safe handling practices
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15. Regulatory Information

- Not classified as hazardous according to OSHA and GHS
 - Complies with local feed additive regulations
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16. Other Information

- **Disclaimer:** The information provided in this MSDS is based on the current knowledge and experience of the company. It is intended as guidance for safe handling, use, and storage. Users must satisfy themselves as to the suitability of the product for their own applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.