

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Sulphate Monohydrate USP 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 Sulphate Monohydrate
- **Grade:** USP
- **CAS No.:** 14168-73-1
- **Molecular Formula:** $\text{MgSO}_4 \cdot \text{H}_2\text{O}$
- **Molecular Weight:** ~138.38 g/mol
- **Recommended Use:** Pharmaceutical excipient, nutritional supplement, laboratory reagent

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS
- **Physical Hazards:** None identified
- **Health Hazards:** May cause mild irritation on excessive exposure
- **Environmental Hazards:** Not considered hazardous

3. Composition / Information on Ingredients

- **Substance:** Magnesium Sulphate Monohydrate
- **Purity:** Meets USP specifications
- **Impurities:** Within pharmacopeial limits

4. First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms persist
- **Skin Contact:** Wash with plenty of water
- **Eye Contact:** Rinse cautiously with water for several minutes
- **Ingestion:** Rinse mouth. Do not induce vomiting. Consult physician if discomfort occurs

5. Fire-Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
- **Special Hazards:** Decomposition may release sulfur oxides
- **Protective Equipment:** Standard fire-fighting protective gear

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable container
- Dispose of according to local regulations

7. Handling and Storage

- **Handling:** Use good industrial hygiene practices
- **Storage:** Store in a cool, dry, well-ventilated area
- **Incompatibilities:** Strong acids

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment:**
 - Gloves
 - Safety goggles
 - Dust mask if necessary

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Freely soluble in water
- **pH:** Neutral to slightly acidic (aqueous solution)
- **Melting Point:** Decomposes on heating

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Hazardous Decomposition Products:** Sulfur oxides

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin/Eye Irritation:** May cause mild irritation
- **Chronic Effects:** No known long-term adverse effects when handled properly

12. Ecological Information

- **Eco-toxicity:** Not expected to be harmful

- **Persistence & Degradability:** Readily soluble, not persistent
 - **Bioaccumulation:** Unlikely
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13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations
 - Product and packaging can be disposed of as non-hazardous waste
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14. Transport Information (Detailed)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not applicable
- **Packing Group:** Not applicable

Regulatory Status by Mode of Transport:

- **ADR/RID (Road/Rail – Europe):** Not regulated as dangerous goods
- **IMDG (Sea Transport):** Not classified as hazardous
- **IATA (Air Transport):** Not restricted

Special Transport Precautions:

- Protect from moisture during transport
- Use well-sealed, moisture-proof packaging
- Avoid rough handling to prevent dust generation

Environmental Transport Hazards:

- Not a marine pollutant
 - No special environmental precautions required
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15. Regulatory Information

- Complies with USP standards
- Not classified as hazardous under GHS, OSHA, or EU regulations

16. Other Information

- This MSDS is prepared based on available data and current regulations
- Information is believed to be accurate but does not constitute a guarantee
- Users are responsible for safe handling and compliance with applicable laws
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.