

Material Safety Data Sheet (MSDS)

Product Name: Manganese Sulphate Feed 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:** Manganese Sulphate
- **Grade:** Feed Grade
- **Chemical Name:** Manganese(II) Sulphate
- **CAS Number:** 7785-87-7
- **EC Number:** 232-089-9
- **Molecular Formula:** $\text{MnSO}_4 \cdot \text{H}_2\text{O}$
- **Recommended Use:** Trace mineral supplement for animal feed
- **Restrictions on Use:** Not intended for human consumption

2. Hazards Identification

- **Hazard Classification:** Harmful if swallowed or inhaled
- **Health Hazards:**

- Dust may cause irritation to respiratory tract
 - Prolonged exposure may affect the nervous system
 - **Eye Contact:** Causes irritation
 - **Skin Contact:** May cause mild irritation
 - **Environmental Hazards:** Toxic to aquatic organisms with long-term effects
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3. Composition / Information on Ingredients

This product consists primarily of **Manganese Sulphate Monohydrate**.

The active ingredient content is **not less than 98%**, with trace amounts of moisture and naturally occurring impurities typical for feed grade material. No additional hazardous additives are intentionally added.

4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash thoroughly with soap and water.
 - **Eye Contact:** Rinse cautiously with clean water for at least 15 minutes.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Obtain medical advice.
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5. Fire Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical, foam, CO₂
 - **Specific Hazards:** Thermal decomposition may release sulphur oxides
 - **Protective Equipment:** Self-contained breathing apparatus
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6. Accidental Release Measures

- Avoid formation of dust
- Sweep up mechanically and place in suitable container
- Prevent material from entering drains or watercourses

7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Use protective equipment.
- **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed. Protect from moisture.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment:**
 - Respiratory protection if dust is generated
 - Protective gloves
 - Safety goggles
- **Hygiene Measures:** Wash hands after handling

9. Physical and Chemical Properties

- **Appearance:** Pale pink crystalline powder
- **Odour:** Odourless
- **Solubility:** Soluble in water
- **pH:** 3.5 – 5.5 (10% aqueous solution)
- **Bulk Density:** Approx. 1.5 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Heat, moisture
- **Incompatible Materials:** Strong oxidizing agents
- **Hazardous Decomposition Products:** Sulphur oxides

11. Toxicological Information

- **Acute Toxicity:** Harmful if swallowed
 - **Chronic Toxicity:** Excessive intake may cause neurological effects
 - **Routes of Exposure:** Inhalation, ingestion, skin contact
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12. Ecological Information

- **Ecotoxicity:** Toxic to aquatic life
 - **Persistence:** Inorganic compound, not biodegradable
 - **Bioaccumulation:** Possible
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13. Disposal Considerations

- Dispose in accordance with local environmental regulations
 - Avoid discharge into water bodies or soil
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14. Transport Information (Detailed)

- **UN Number:** UN 3077
- **Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S. (Manganese Sulphate)
- **Hazard Class:** Class 9 – Miscellaneous Dangerous Goods
- **Packing Group:** III
- **Labels Required:** Class 9, Environmentally Hazardous

Road Transport (ADR/RID):

Material is regulated. Must be transported in sealed, labeled containers.

Sea Transport (IMDG):

Marine Pollutant: Yes

EMS Code: F-A, S-F

Keep away from food and feedstuffs.

Air Transport (IATA):

Restricted cargo transport as per IATA regulations.

Special Precautions:

Protect from moisture and ensure proper labeling during transit.

15. Regulatory Information

- Complies with feed additive safety requirements
- Subject to national and international chemical safety regulations

16. Other Information

The information provided in this MSDS is based on current knowledge and is intended as guidance for safe handling, storage, transport, and disposal.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.