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Material Safety Data Sheet (MSDS)

Product Name: Ferrous Fumarate IP Grade
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
Science City Road,
Sola Ahmedabad Gujarat,
India - 380060.
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1. Identification of the Substance/Preparation and Company

- **Product Name:** Ferrous Fumarate – IP Grade
- **Synonyms:** Iron(II) fumarate
- **Molecular Formula:** $C_4H_2FeO_4$
- **Molecular Weight:** 169.9 g/mol

2. Hazards Identification

- **Classification (GHS):**
  Not classified as hazardous under normal conditions of use.
- **Hazards:** May cause mild irritation to eyes, skin, and respiratory tract.
- **Precautionary Statements:**
  Avoid inhalation of dust. Wash hands after handling.

3. Composition/Information on Ingredients

- **Substance:** Ferrous Fumarate
- **CAS No.:** 141-01-5
- **EC No.:** 205-451-5
- **Purity:** IP Grade, > 98%

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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Rinse mouth, give water, and seek medical attention. High doses may cause gastrointestinal irritation.

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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, CO_2, or dry chemical powder.
- **Specific Hazards:** Non-flammable. May emit iron oxide fumes under fire conditions.
- **Protective Equipment:** Use self-contained breathing apparatus if large quantities burn.

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6. Accidental Release Measures

- **Personal Protection:** Avoid dust formation. Wear protective mask, gloves, and goggles.
- **Environmental Protection:** Prevent large quantities from entering drains or soil.
- **Cleanup Methods:** Sweep up, place in suitable container, and dispose as per regulations.

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7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Prevent dust accumulation.
- **Storage:** Store in cool, dry, and well-ventilated area in tightly closed containers. Keep away from moisture and incompatible substances.

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8. Exposure Controls/Personal Protection

- **Engineering Controls:** Provide local exhaust ventilation if dust is generated.
- **Personal Protection:**
    - Respiratory: Dust mask recommended.
    - Eye: Safety goggles.
    - Skin: Gloves and protective clothing.

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9. Physical and Chemical Properties

- **Appearance:** Reddish-orange powder
- **Odor:** Odorless
- **pH (1% solution):** ~5.5–7.0
- **Melting Point:** Decomposes
- **Solubility:** Slightly soluble in water
- **Density:** ~3.0 g/cm³

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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** Iron oxides and carbon oxides.

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11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** LD_{50} ~ 10,000 mg/kg (low toxicity)
- **Health Hazards:** Large ingestion may cause nausea, vomiting, diarrhea.
- **Chronic Effects:** Excessive iron intake may cause iron overload.

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12. Ecological Information

- **Ecotoxicity:** Not classified as hazardous for the environment.
- **Persistence & Degradability:** Organic part is biodegradable.

- **Bioaccumulation:** Low potential.

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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Avoid release into environment.

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14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **Proper Shipping Name:** Ferrous Fumarate IP Grade
- **Transport Hazard Class:** Not regulated as dangerous goods.
- **Packing Group:** Not applicable
- **Labeling Requirements:** No specific hazard label required.
- **Special Precautions:**
    - Protect from physical damage and moisture during transportation.
    - Use sealed containers or bags to prevent dust release.
    - Store away from oxidizing agents during transit.
- **Mode Specific Guidance:**
    - **Road/Rail (ADR/RID):** Not classified as hazardous; transport in covered vehicles.
    - **Air (IATA):** Not restricted for air transport. Package in moisture-proof bags/containers.
    - **Sea (IMDG):** Not classified as marine pollutant. Transport under dry conditions.

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15. Regulatory Information

- Complies with IP Grade pharmaceutical raw material standards.
- Not classified under hazardous chemical regulations.

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16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and is intended to describe the product in terms of health, safety, and environmental requirements. It should not be construed as a guarantee of specific properties.
- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com

- MSDS are based on the manufacturer's provided information.