

Material Safety Data Sheet (MSDS)

Product Name: Ferrous Ascorbate IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Ferrous Ascorbate
 - **Grade:** IP Grade
 - **Synonyms:** Iron(II) Ascorbate, Ferrous Salt of Ascorbic Acid
 - **Recommended Use:** Pharmaceutical raw material for manufacturing iron supplements.
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2. Hazard Identification

- Not classified as hazardous under normal handling.
- **Potential Health Effects:**
 - *Inhalation:* May cause mild irritation to respiratory tract.
 - *Skin Contact:* Non-irritant but may cause mild sensitivity in some individuals.
 - *Eye Contact:* May cause irritation.
 - *Ingestion:* Excess ingestion may cause gastrointestinal discomfort.

- **Precautionary Classification:** Non-hazardous; handle with preventive hygiene.
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3. Composition / Information on Ingredients

- **Chemical Name:** Ferrous Ascorbate
 - **CAS No:** 24808-52-4
 - **Purity:** IP Grade
 - **Formula:** C₁₂H₁₄FeO₁₂
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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical help if irritation persists.
 - **Skin Contact:** Wash with water; remove contaminated clothing.
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes.
 - **Ingestion:** Rinse mouth; seek medical attention if symptoms appear.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam.
 - **Fire Hazards:** Non-flammable; may decompose under high heat.
 - **Protective Equipment:** Firefighters should wear protective clothing.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and collect in labelled containers.
 - Ventilate area during cleanup.
 - Avoid contact with eyes and skin.
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7. Handling and Storage

- **Handling:** Use in well-ventilated conditions, avoid dust generation.

- **Storage:**
 - Store in a cool, dry place.
 - Keep container tightly closed.
 - Protect from moisture, heat, and direct sunlight.
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8. Exposure Controls / Personal Protection

- **Respiratory Protection:** Dust mask recommended.
 - **Eye Protection:** Safety goggles.
 - **Hand Protection:** Gloves recommended.
 - **Engineering Controls:** Adequate ventilation; local exhaust if dust is generated.
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9. Physical and Chemical Properties

- **Appearance:** Reddish-brown to dark brown powder
 - **Odor:** Odorless
 - **Solubility:** Soluble in water
 - **pH (solution):** Slightly acidic
 - **Melting Point:** Not available
 - **Bulk Density:** Approx. 0.4 – 0.6 g/cm³
 - **Stability:** Stable under recommended conditions
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10. Stability and Reactivity

- **Stability:** Stable in dry conditions.
 - **Incompatible Materials:** Strong oxidizing agents, moisture.
 - **Hazardous Decomposition:** CO₂, CO, and iron oxides.
 - **Conditions to Avoid:** Heat, direct sunlight, humidity.
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11. Toxicological Information

- **Acute Toxicity:** Not classified as toxic at normal exposure.
 - **Irritation:** May cause eye or respiratory irritation.
 - **Sensitization:** No known sensitization effects.
 - **Carcinogenicity:** No data indicating carcinogenic potential.
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12. Ecological Information

- **Environmental Impact:** Low.
 - **Biodegradability:** Organic components are biodegradable.
 - **Aquatic Toxicity:** Not expected to be environmentally hazardous.
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13. Disposal Considerations

- Dispose of in accordance with local and national regulations.
 - Do not release into drains or the environment.
 - Dispose of unused material through authorized waste handlers.
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14. Transport Information (Detailed)

14.1 UN Number:

- This product is **not assigned a UN number** as it is not classified as dangerous goods.

14.2 UN Proper Shipping Name:

- Not regulated for transport; no specific shipping name required.

14.3 Transport Hazard Class(es):

- **ADR/RID (Road/Rail):** Not hazardous
- **IMDG (Sea):** Not hazardous
- **IATA (Air):** Not hazardous
- No special hazard classification or labeling required.

14.4 Packing Group:

- Not applicable since the material is not dangerous.

14.5 Environmental Hazards:

- **Marine Pollutant:** No
- **Ecological Risk:** Low; not expected to harm aquatic or terrestrial environments.

14.6 Special Precautions for User:

- Keep container closed during transport.
- Prevent exposure to moisture or high temperature.
- Use sealed packaging to avoid powder spillage.
- Handle hygienically to prevent contamination.

14.7 Transport in Bulk According to Annex II of MARPOL & IBC Code:

- Not applicable; material is transported in packaged form only.

15. Regulatory Information

- Not classified as hazardous under Indian, EU, or US regulations for transport and workplace safety.
- Complies with relevant IP-grade pharmaceutical raw material standards.

16. Other Information

- This MSDS is prepared based on available data and is intended for guidance.
- Users should ensure safe handling in accordance with good industrial hygiene practices.
- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com