

Material Safety Data Sheet (MSDS)

Product Name: Ferrous Gluconate IP 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: Ferrous Gluconate IP
- Synonyms: Iron(II) gluconate
- Use: Pharmaceutical raw material, nutritional supplement, food fortification.

2. Hazards Identification

- Classification: Not classified as hazardous under normal handling conditions.
- Possible Hazards: Ingestion in large amounts may cause gastrointestinal discomfort, constipation, nausea, or iron overload.
- Target Organs: Gastrointestinal tract, liver, blood.
- GHS Label: Not applicable.

3. Composition/Information on Ingredients

- Chemical Name: Ferrous Gluconate

- Molecular Formula: $C_{12}H_{22}FeO_{14}$
- Molecular Weight: 446 g/mol
- Purity: IP Grade

4. First Aid Measures

- Inhalation: Move to fresh air. Seek medical advice if irritation persists.
- Skin Contact: Wash with soap and water. No irritation expected.
- Eye Contact: Rinse thoroughly with water for several minutes. Seek medical advice if irritation occurs.
- Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical help in case of discomfort or overdose.

5. Firefighting Measures

- Suitable Extinguishing Media: Water spray, dry chemical, foam, or CO_2 .
- Special Hazards: Not highly flammable; may produce irritating fumes if heated to decomposition.
- Protective Equipment: Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Personal Protection: Avoid dust formation; wear protective mask and gloves.
- Cleanup Methods: Sweep up, place in suitable container, and dispose according to regulations.
- Environmental Precautions: Prevent spillage into drains and waterways.

7. Handling and Storage

- Handling: Avoid dust inhalation and prolonged contact with skin/eyes.
- Storage: Store in a cool, dry place. Protect from light and moisture. Keep container tightly closed.

8. Exposure Controls/Personal Protection

- Exposure Limits: No occupational exposure limits established.
 - Engineering Controls: Use adequate ventilation.
 - Personal Protection:
 - Respiratory: Dust mask if dust is generated.
 - Eye: Safety glasses.
 - Skin: Protective gloves.
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9. Physical and Chemical Properties

- Appearance: Fine, yellowish to greenish-black powder
 - Odor: Odorless or faint characteristic
 - Solubility: Soluble in water
 - Melting Point: Not applicable (decomposes)
 - pH (1% solution): 4.0 – 6.0
 - Stability: Stable under normal conditions
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10. Stability and Reactivity

- Stability: Stable at room temperature in closed containers.
 - Conditions to Avoid: Excessive heat, light, and moisture.
 - Incompatible Materials: Strong oxidizing agents.
 - Hazardous Decomposition: Oxides of iron and carbon.
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11. Toxicological Information

- Acute Toxicity: Low toxicity at nutritional doses.
- Ingestion (High Dose): May cause nausea, vomiting, abdominal pain, diarrhea, iron poisoning.
- Chronic Exposure: Prolonged overexposure may cause liver damage due to iron accumulation.
- Carcinogenicity: Not classified as carcinogenic.

12. Ecological Information

- Eco-toxicity: Not classified as dangerous for the environment.
- Persistence/Degradability: Expected to be biodegradable.
- Bioaccumulation: Low potential.
- Mobility: Water soluble.

13. Disposal Considerations

- Waste Disposal: Dispose of according to local, state, and national regulations.
- Packaging Disposal: Dispose of in accordance with official regulations.

14. Transport Information (Detailed)

- UN Number: Not regulated
- UN Proper Shipping Name: Not applicable (non-hazardous for transport)
- Transport Hazard Class: Not classified as dangerous goods
- Packing Group: Not applicable
- Marine Pollutant: No
- ADR/RID (Road/Rail): Not regulated, transport in sealed bags/containers to prevent spillage.
- IMDG (Sea Transport): Not classified as hazardous, ensure moisture-protected packaging during shipment.
- IATA (Air Transport): Non-hazardous, follow general cargo handling procedures.
- Special Precautions: Protect from direct sunlight, moisture, and mechanical damage. Keep packaging intact during transport.
- Emergency Response: In case of spillage, avoid dust formation and clean with dry methods.

15. Regulatory Information

- Complies with Indian Pharmacopoeia (IP) specifications.

- Not classified as hazardous under GHS/CLP regulations.
- No specific labeling required.

16. Other Information

- This MSDS has been prepared based on current knowledge and standard references.
- It is intended for guidance and safety in handling.
- Users are responsible for ensuring suitability for specific 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.