

Material Safety Data Sheet (MSDS)

Product Name: Sodium Iron EDTA 12% Food 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: Sodium Iron EDTA 12%

Synonyms: Ferric Sodium EDTA, Sodium Ferric Ethylenediaminetetraacetate

Chemical Formula: $C_{10}H_{12}FeN_2NaO_8$

Molecular Weight: 367.05 g/mol

CAS No.: 15708-41-5

Grade: Food Grade

Recommended Use: Nutrient fortification, food additive, dietary supplement.

Restrictions: Not for pharmaceutical or non-food industrial use.

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS.
- **Hazard Statements:** Non-toxic under normal use conditions.
- **Signal Word:** None

- **Pictogram:** None
 - **Precautionary Statements:**
 - Avoid inhalation of dust.
 - Avoid contact with eyes and skin.
 - Use in a well-ventilated area.
 - Wash hands after handling.
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3. Composition / Information on Ingredients

Chemical Name: Sodium Iron EDTA

CAS Number: 15708-41-5

Content: Minimum 12% Iron (Fe)

Nature of Material: Food grade chelated iron compound used as a fortifying agent.

Impurities or Additives: Does not contain hazardous impurities or stabilizing additives.

4. First Aid Measures

- **Inhalation:** Move person to fresh air. If symptoms persist, seek medical attention.
 - **Skin Contact:** Wash with plenty of water and soap. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes. Seek medical help if irritation persists.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if large amounts are ingested.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
 - **Special Hazards:** Non-combustible; decomposition may produce nitrogen oxides.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust generation. Use protective equipment.
- **Environmental Precautions:** Prevent entry into drains and water bodies.
- **Methods for Cleaning Up:** Sweep up or vacuum spill carefully. Place material in a suitable container for disposal.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Handle in well-ventilated areas. Avoid direct contact.
- **Storage:** Store in a cool, dry place in tightly closed containers. Keep away from moisture and incompatible substances (acids and strong oxidizers).

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended.
- **Respiratory Protection:** Use dust mask if dust is generated.
- **Eye Protection:** Safety goggles.
- **Skin Protection:** Protective gloves and clothing.
- **Hygiene Measures:** Wash hands after handling and before eating.

9. Physical and Chemical Properties

Appearance: Light yellow to pale brown powder

Odor: Odorless

Solubility: Soluble in water

pH (1% solution): 4.0 – 6.0

Boiling Point: Not applicable

Melting Point: Above 300°C (decomposes)

Density: Approximately 0.8 g/cm³

Stability: Stable under normal conditions

Flash Point: Not applicable

Vapor Pressure: Not applicable

Partition Coefficient (n-octanol/water): Not available

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Strong acids, oxidizing agents.
- **Hazardous Decomposition Products:** May release nitrogen oxides and metal oxides on decomposition.
- **Conditions to Avoid:** Excessive heat, moisture.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat): > 2000 mg/kg (low toxicity).
- **Skin Irritation:** Mild, non-irritant.
- **Eye Irritation:** May cause mild irritation.
- **Chronic Effects:** None known.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Low environmental hazard.
- **Persistence and Degradability:** Biodegradable in natural conditions.
- **Bioaccumulation:** Not expected to bioaccumulate.
- **Mobility in Soil:** Moderate.

13. Disposal Considerations

- Dispose of contents/container in accordance with local, regional, national, and international regulations.
- Avoid release into the environment.
- Can be disposed of as non-hazardous chemical waste.

14. Transport Information (Detailed)

UN Number: Not applicable (Non-hazardous material).

UN Proper Shipping Name: Sodium Iron EDTA 12% Food Grade.

Transport Hazard Class: Not classified as hazardous for transport.

Packing Group: Not applicable.

Environmental Hazards: Not a marine pollutant.

Special Precautions for User:

- Ensure packaging is sealed and labeled correctly.
- Avoid moisture contact during transport.
- Handle with care to prevent rupture or spillage.

Transport Regulations Compliance:

- **ADR/RID (Road/Rail):** Not regulated.
- **IMDG (Sea):** Not regulated.
- **IATA (Air):** Not regulated.
- **Domestic Transport:** Safe for normal transportation under food-grade category.

15. Regulatory Information

- **Regulatory Status:** Approved for use as a food fortificant in compliance with FSSAI and international standards (FAO/WHO).
- **Safety Regulations:** Complies with REACH and GHS guidelines.
- **Labeling Requirements:** Not classified as hazardous; standard food additive labeling applicable.

16. Other Information

Abbreviation: EDTA – Ethylenediaminetetraacetic acid

Training Advice: Provide training on safe handling and storage practices.

Disclaimer:

The information provided in this MSDS is believed to be accurate and based on the best available data at the time of publication.

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