

1. Identification

1.1 Product identifier	ChelStar Iron 6
1.2 Synonym(s)	EDDHA-FE(III)-NA
1.3 Relevant identified uses of the substance or mixture and uses advised against	
Intended use	Agricultural/Horticultural Use – Micronutrient Fertilizer.
Application Method	Refer to product label.
Restrictions on use	None known.
1.4 Details of the supplier of the safety data sheet	
Company Name	Chemurgic Agricultural Chemicals, Inc. P.O. Box 2106 Turlock, CA 95381
Company Phone Numbers	DAYS: (209) 634-2951; EVES: (209) 652-7260
EMERGENCY PHONE NUMBERS:	
24-Hour Emergency Telephone Number	INFOTRAC: 1-800-535-5053 EPA National Response Center: (800) 424-8802

2. Hazard(s) identification

2.1 Classification of the substance or mixture

Classification (GHS-US)

Not classified.

2.2 Label elements

Hazard symbol:	None
Signal word:	None
Hazard statement:	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention:	Observe good industrial hygiene practices.
Response:	Wash hands after handling.
Storage:	Store away from incompatible materials.
Disposal:	Dispose of contents/container in accordance with local authority regulations.

2.3 Other hazards

Not classified.

3. Composition/information on ingredients

Mixtures

Chemical Name	CAS Number	Weight %	Classification (GHS-US)
Ferric EDDHA, Sodium Salt	16455-61-1	90-100	Not classified

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If skin irritation occurs, get medical advice/attention.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician or Poison Control Center immediately.

4.2. Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation.

4.3 Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Specific hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 Advice for fire-fighters

Firefighting instructions:

Move containers from fire area if you can do so without risk. Keep containers cool by spraying with water if exposed to fire.

Protection during firefighting:

Wear self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains, water courses or onto the ground. In case of spillage to drain/aquatic environment, contact local authorities.

6.3. Methods and material for containment and cleaning up

Large spills: Dike the spilled material where this is possible. Cover with plastic sheet to prevent spreading.

Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

7.1. Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container only. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

8.1. Control parameters

Occupational exposure limits: No biological exposure limits noted for the ingredient(s).

8.2. Appropriate engineering control

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection:

Hand protection: Wear appropriate chemical resistant gloves.

Other: Wear suitable protective clothing.

Respiratory protection: Respiratory protection not required under normal operating conditions. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

Hygiene measures: Always observe good personal hygiene practices. Wash hands after handling the material and before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance

Physical state

Color

Odor

Odor threshold

Solid. Granular.

Dark red to brown

Odorless

Not available

pH	8-9
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Flammability (solid)	Not available
Vapor pressure	0.000002 hPa estimated
Relative density	Not available
Solubility (water)	50 g/l @ 20 degrees C
Partition coefficient n-octanol/water	Not available
Decomposition temperature	Not available
Viscosity	Not available

9.2 Other information

Bulk density	500 – 700 kg/m ³ (approximate)
Molecular formula	C ₁₈ H ₁₆ FeN ₂₀₆ .Na
pH in aqueous solution	7 – 9, 1% Solution

10. Stability and reactivity

- 10.1. **Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 10.2. **Chemical stability:** Material is stable under normal conditions.
- 10.3. **Possibility of hazardous reactions:** Dust may form explosive mixture in air.
- 10.4. **Conditions to avoid:** None known.
- 10.5. **Incompatible materials:** Strong oxidizing agents.
- 10.6. **Hazardous decomposition products:** Carbon oxides and nitrogen oxides (NO_x).

11. Toxicological information

Likely routes of exposure

- Ingestion:** Expected to be a low ingestion hazard.
- Inhalation:** No adverse effects due to inhalation are expected.
- Skin contact:** No adverse effects due to skin contact are expected.
- Eye contact:** Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity:

Product	Species	Test Results
Ferric EDDHA, Sodium Salt (CAS Mixture)		
Acute		
Dermal LD50	Rat	2000 mg/kg estimated
Oral LD50	Rat	10000 mg/kg estimated

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Irritation: Direct contact with eyes may cause temporary irritation.

Respiratory Sensitization: Data not available.

Skin Sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity (single and repeated exposure): Not classified.

Aspiration hazard: Data not available.

12. Ecological information

12.1. Ecotoxicity: Harmful to aquatic life with long lasting effects.

Product	Species	Test Results
Ferric EDDHA, Sodium Salt (CAS Mixture)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia
Fish	LC50	Fish
		100 mg/l, 48 h estimated
		100 mg/l, 96 h estimated

12.2. Persistence and degradability: Data not available

12.3. Bioaccumulative potential: Data not available

12.4. Mobility in soil: Data not available

12.5. Other adverse effects: No other adverse environmental effects are expected from this component.

13. Disposal considerations

13.1. Waste treatment methods

Remove waste in accordance with local and/or national regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

15. Regulatory information

15.1 US Federal regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.



15.2 Other Federal regulations

Not regulated

15.3 US State regulations

U.S. California Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Chemurgic Agricultural Chemicals, Inc. does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Chemurgic Agricultural Chemicals, Inc. assumes legal responsibility.

End of Document