

Safety Data Sheet

CCS 4.5% Iron

SDS Number: 11149
SDS Prepared: 02/28/2017
SDS Version: 1.2
Version Date: 06/18/2026

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CCS 4.5% Iron
CHEMICAL NAME: Chelated 4.5% Iron Solution
EPA REGISTRATION NUMBER: Not Regulated

Manufactured by:
Coastal AgroBusiness, Inc.
PO Box 856
Greenville, NC 27835
Phone: 1-800-635-1388

Emergency Telephone Numbers
Chemtrec (24 hours)
1-800-424-9300
Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)
1-800-635-1388

2. HAZARDS IDENTIFICATION SUMMARY

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification

Eye Irritant 2A H319

LABEL ELEMENTS

GHS-US Labeling

Hazard Pictogram (GHS-US)



GHS07

SIGNAL WORD (GHS-US)

WARNING

HAZARD STATEMENTS (GHS-US)

H319 - Causes serious eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US)

P102 - Keep out of reach of children.

P203 - Obtain, read, and follow all safety instructions before use.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink, or smoke when using this product.

P280 - Wear protective gloves, protective clothing, and eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>GHS-US Classification</u>
Water	Proprietary	7732-18-5	Not classified
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-κO)methyl]glycinato-κN,κO]](4-)]-, ammonium (1:1), (OC-6-21)-	Proprietary	21265-50-9	Eye Irritant 2A, H319

The specific chemical identity and/or exact composition percentage have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]. In the event of an emergency, chemical identities and exact percentages of the proprietary ingredients may need to be disclosed to emergency personnel upon request.

4. FIRST AID MEASURES

EYES:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
SKIN:	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
INGESTION:	Call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
INHALATION:	When symptoms occur, go into the open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	No data available
FLAMMABLE LIMITS (LFL & UFL):	No data available.
EXTINGUISHING MEDIA:	Water spray, foam, dry chemical, and CO ₂ . Do not use a heavy water stream as it may spread the fire.
HAZARDOUS COMBUSTION PRODUCTS:	May release corrosive vapors.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained positive-pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Cool fire-exposed containers with water or fog. Attack from upwind.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Not considered flammable, but may burn at high temperatures. The product is not explosive. Hazardous reactions will not occur under normal conditions.

6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers, streams, or public waters. Avoid release to the environment.
CLEANING UP:	Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact the proper authorities after a spill. Ensure the cleanup crew has appropriate personal protective equipment.

7. HANDLING AND STORAGE

HANDLING:	Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and when leaving work. Avoid breathing vapors, mist, or spray. Avoid prolonged contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety procedures.
STORAGE:	Keep container closed when not in use. Store in a cool, dry place. Keep/Store away from direct sunlight, extremely high or low temperatures, and incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:	For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency, including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).
SIGNS AND SYMPTOMS OF EXPOSURE:	Causes serious eye irritation. After exposure: Prolonged exposure may cause respiratory and skin irritation. Ingestion may cause adverse effects. Redness and swelling of the conjunctiva.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.
PRIMARY ROUTES OF ENTRY:	Dermal
ENGINEERING CONTROLS:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Use adequate exhaust ventilation to prevent inhalation of product vapors.
EMERGENCY PERSONNEL PROCEDURES:	Ensure the cleanup crew has appropriate personal protective equipment. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.
NON-EMERGENCY PERSONNEL PROCEDURES:	Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.
RESPIRATORY PROTECTION:	If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen-deficient atmosphere, or where exposure levels are not known, wear approved respiratory protection.
EYE PROTECTION:	Wear full-face shield or chemical safety goggles when handling.
SKIN PROTECTION:	Use impervious gloves and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND PHYSICAL STATE:	Reddish-brown liquid
ODOR:	Slight odor
SPECIFIC GRAVITY (Water=1):	1.16 - 1.19
VAPOR PRESSURE:	No data available
VAPOR DENSITY (Air = 1):	No data available
% VOLATILITY (V/V):	No data available
BOILING POINT:	220°F (104.44°C)
MELTING POINT:	No data available
SOLUBILITY:	Completely miscible
pH:	6.5 - 7.0
VISCOSITY @ 68°F (20°C):	No data available

Note: These physical data are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY:	Stable under recommended handling and storage conditions in Section 7.
CONDITIONS TO AVOID:	Direct sunlight, extremely high or low temperatures, and incompatible materials.
INCOMPATIBILITY:	Strong acids, bases, and oxidizing agents.
REACTIVITY:	Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS:	None known
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD ₅₀ :	Not classified
ACUTE DERMAL LD ₅₀ :	Not classified
ACUTE INHALATION LC ₅₀ :	Not classified
EYE IRRITATION:	Causes serious eye irritation
CARCINOGENIC POTENTIAL:	Not classified
SKIN IRRITATION/SENSITIZATION:	Not classified

12. ECOLOGICAL INFORMATION

TOXICOLOGY

Ecology - General:	Not classified
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PERSISTENCE AND DEGRADABILITY

Persistence and Degradability:	Not established
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BIOACCUMULATIVE POTENTIAL

Bioaccumulative Potential:	Not established
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MOBILITY IN SOIL:	No additional information available
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OTHER ADVERSE EFFECTS

Other Information:	Avoid release to the environment
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13. DISPOSAL CONSIDERATIONS

Do not reuse container. Avoid release to the environment.

Waste Disposal Methods: Dispose of contents/container in accordance with local, regional, national, and international regulations. The container may remain hazardous when empty. Continue to observe all precautions.

14. TRANSPORTATION INFORMATION

IN ACCORDANCE WITH DOT, IMDG, IATA:	Not regulated for transport by USDOT as a hazardous material.
FREIGHT CLASSIFICATION:	Liquid Fertilizer NOIBN NMFC No. 68100 Class 50

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA, Section 311/312 Hazard Classes: Immediate (acute) health hazard

TSCA Inventory: Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-κO)methyl]glycinato-κN,κO]](4-)]-, ammonium (1:1), (OC-6-21)- (21265-50-9)

US STATE REGULATIONS: Neither this product nor its chemical components appear on any US state lists.

16. OTHER INFORMATION

SDS STATUS:	Updated
REASON FOR CHANGE:	Updated Technical Information
PREPARED BY:	Emma Simpson, Product Development Specialist - Chemist

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