

## Safety Data Sheet

# CCS 4.5% Iron

SDS Number: 11149  
SDS Prepared: 02/28/2017  
SDS Version: 1.0  
Version Date: 02/28/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

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

**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

Full text of hazard classes and H-statements: see section 16

#### LABEL ELEMENTS

##### GHS-US Labeling

##### Hazard Pictogram (GHS-US)



GHS07

##### SIGNAL WORD (GHS-US)

##### HAZARD STATEMENTS (GHS-US)

##### PRECAUTIONARY STATEMENTS (GHS-US)

##### Warning

H319 - Causes serious eye irritation.

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

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.

##### OTHER HAZARDS

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

##### UNKNOWN ACUTE TOXICITY (GHS-US)

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### SUBSTANCES

Not applicable

**MIXTURE**

<b><u>Chemical Ingredients:</u></b>	<b><u>Percentage by Weight:</u></b>	<b><u>CAS No.</u></b>	<b><u>GHS-US classification</u></b>
Water	Proprietary	7732-18-5	Not classified

Ferrate(1-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, ammonium, (OC-6-21)-  
Full text of H-phrases: see section 16

Proprietary 21265-50-9 Eye Irrit. 2A, H319

The specific chemical identity and/or exact percentage of composition has 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

### DESCRIPTION OF FIRST-AID MEASURES

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

**Symptoms/Injuries:** Causes serious eye irritation.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None known.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### ADVICE FOR FIREFIGHTERS

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** May release corrosive vapors.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**General Measures:** Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.

**For Non-Emergency Personnel Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** 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.

Ventilate area.

### ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters. Avoid release to the environment.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### REFERENCE TO OTHER SECTIONS

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, or spray.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers.

### SPECIFIC END USE(S)

Agriculture

## 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).

### EXPOSURE CONTROLS

#### Appropriate 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.

#### Personal Protective Equipment Materials for Protective Clothing

Gloves. Protective clothing. Protective goggles.  
Chemically resistant materials and fabrics.

#### Hand Protection

Wear protective gloves.

#### Eye Protection

Chemical safety goggles.

#### Skin and Body Protection

Wear suitable protective clothing.

#### 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.

#### Other Information

When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**

Liquid

**Appearance**

Reddish-brown

**Odor**

None

Odor Threshold	No data available
pH	7.5 - 8
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	104.44 °C (220°F)
Flash Point	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor Pressure	No data available
Relative Vapor Density at 20°C	No data available
Relative Density	10 lbs/gal
Specific Gravity	1.2 kg/l
Solubility	Complete in water.
Partition Coefficient: N-Octanol/Water	No data available
Viscosity	No data available
<b>OTHER INFORMATION</b>	No additional information available

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Hazardous reactions will not occur under normal conditions.

**CHEMICAL STABILITY:** Stable under recommended handling and storage conditions (see section 7).

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

**INCOMPATIBLE MATERIALS:** Strong acids, strong bases, strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

## 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute Toxicity:** Oral: Harmful if swallowed

**CCS 7.5% Copper**

**ATE (Oral)**

1,091.70 mg/kg body weight

**Cuprate(2-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, diammonium, (OC-6-21)- (67989-88-2)**

**ATE (Oral)**

500.00 mg/kg body weight

**Skin Corrosion/Irritation:** Causes skin irritation.

pH: 7 - 8

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

pH: 7 - 8

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts.

**Chronic Symptoms:** None known.

## 12. ECOLOGICAL INFORMATION

### TOXICOLOGY

**Ecology - General**

Not classified.

### PERSISTENCE AND DEGRADABILITY

**Persistence and Degradability**

Not established.

### BIOACCUMULATIVE POTENTIAL

<b>Bioaccumulative Potential</b>	Not established.
<b>MOBILITY IN SOIL</b>	No additional information available
<b>OTHER ADVERSE EFFECTS</b>	
<b>Other Information</b>	Avoid release to the environment

### 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

### 14. TRANSPORTATION INFORMATION

<b>IN ACCORDANCE WITH DOT</b>	Not regulated for transport
<b>IN ACCORDANCE WITH IMDG</b>	Not regulated for transport
<b>IN ACCORDANCE WITH IATA</b>	Not regulated for transport

### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

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

**Water (7732-18-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Ferrate(1-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, ammonium, (OC-6-21)- (21265-50-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

### 16. OTHER INFORMATION

<b>SDS STATUS:</b>	New Product	
<b>REASON FOR CHANGE:</b>	Developed SDS	
<b>PREPARED BY:</b>	Tandy O. Dunn, Director of Health, Safety & Environmental Affairs	
<b>GHS Full Text Phrases:</b>	Eye Irrit. 2A H319	Serious eye damage/eye irritation Category 2A Causes serious eye irritation

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Coastal AgroBusiness, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

