

# Safety Data Sheet

## CCS 6% Manganese

SDS Number: 10438  
 SDS Prepared: 02/28/2017  
 SDS Version: 1.0  
 Version Date: 02/28/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CCS 6% Manganese  
**CHEMICAL NAME:** Chelated Manganese Solution 6%  
**EPA REGISTRATION NUMBER:** Not Registered

<p><b>Manufactured by:</b>                  Coastal AgroBusiness Inc.                  PO Box 856                  Greenville, NC 27835                  Phone: 1-800-635-1388</p>	<p><b>Emergency Telephone Numbers</b>                  Chemtrec (24 hours)                  1-800-424-9300                  Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)                  1-800-635-1388</p>
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### 2. HAZARDS IDENTIFICATION SUMMARY

**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**  
**GHS-US Classification**  
 Not classified  
**LABEL ELEMENTS**  
**GHS-US Labeling Hazard Statements (GHS-US)**  
 No labeling applicable  
**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

<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
Manganate(2-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dipotassium, (OC-6-21)-	Proprietary	68015-77-0	Not classified

Full text of H-phrases: see section 16  
 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:** Not expected to present a significant hazard under anticipated conditions of normal use.

**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:** May cause slight irritation to eyes.

**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 chemicals, 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:** Irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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

**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.

#### Hand Protection

Chemically resistant materials and fabrics.

#### Eye Protection

Wear protective gloves.

#### Skin and Body Protection

Chemical safety goggles.

#### Respiratory Protection

Wear suitable protective clothing.

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	Clear to slightly pink
Odor	Slight musty odor
Odor Threshold	No data available
pH	7.0 – 8.5
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	11 lbs/gal
Specific Gravity	1.32 kg/l
Specific Gravity/Density	10.85 lbs/gal
Solubility	Complete in water.
Partition Coefficient: N-Octanol/Water	No data available

**Viscosity** No data available  
**OTHER INFORMATION** 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:** Not classified  
**Skin Corrosion/Irritation:** Not classified **pH:** 7.0 – 8.5  
**Serious Eye Damage/Irritation:** Not classified **pH:** 7.0 – 8.5  
**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:** Prolonged exposure may cause skin irritation.  
**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.  
**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.  
**Chronic Symptoms:** None known.

## 12. ECOLOGICAL INFORMATION

### TOXICOLOGY

**Ecology - General** Not classified.

### PERSISTENCE AND DEGRADABILITY

**Persistence and Degradability** Not established.

### BIOACCUMULATIVE POTENTIAL

**BIOACCUMULATIVE Potential** Not established.

### MOBILITY IN SOIL

No additional information available

### OTHER ADVERSE EFFECTS

**Other Information** 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.

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

## 14. TRANSPORTATION INFORMATION

**IN ACCORDANCE WITH DOT** Not regulated for transport

**IN ACCORDANCE WITH IMDG** Not regulated for transport

**IN ACCORDANCE WITH IATA** Not regulated for transport

## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Water (7732-18-5)

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

**Manganate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dipotassium, (OC-6-21)- (68015-77-0)**

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

**SDS STATUS:** New Product  
**REASON FOR CHANGE:** Developed SDS  
**PREPARED BY:** Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

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