

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Common Name: CM Liquid Manganese 5%
 Chemical Description: Proprietary mixture of Manganese Lignosulfonate.
 TSCA/CAS No.: There is no specific CAS number because this product is a mixture.

Manufactured By
 Custom Ag Formulators, Inc
 3430 S. Willow
 Fresno, CA 93725

Emergency Phone Numbers
 Emergency Telephone: (559) 435-1052
 CHEMTREC (24-Hour Emergency Number): (800) 424-9300

SECTION 2. HAZARD(S) IDENTIFICATION

Signal Word: CAUTION

Response:

In Case of Fire: Non-combustible. Media as needed to control primary source of fire.

If Swallowed: Nausea, gastric distress may result from swallowing large amounts of this material. If the person is conscious, give large amounts of water and induce vomiting. See a physician.

If on hair or Skin: Wash affected area with water. Obtain medical attention if irritation persists.

If in Eye: Immediately flush eyes with large quantities of water for 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation persists.

If Inhaled: Remove from contaminated atmosphere. Inhalation may be irritating to respiratory tract. See a physician.

Storage:

Store in a cool dry place away from children as well as animals, food and feed products.

Disposal:

Dispose of all waste materials and containers according to local, state and federal regulations.

HEALTH: 4 REACTIVITY: 5 FLAMMABILITY: 5 ENVIRONMENT: 5

(5=Insignificant 4=Slight 3=Moderate 2=High 1=Extreme)

SECTION 3. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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N/A.

SECTION 4. FIRST AID MEASURES

- Eyes:** Immediately flush eyes with large quantities of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention if irritation persists.
- Skin:** Wash affected area with water. Obtain medical attention if irritation persists.
- Ingestion:** Nausea, gastric distress may result from swallowing large amounts of this material. If the person is conscious, give large amounts of water and induce vomiting. See a physician.
- Inhalation:** Remove from contaminated atmosphere. Inhalation may be irritating to respiratory tract. See a physician.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:**
Media as needed to control primary source of fire.
- Specific Hazards During Fire Fighting:**
May emit toxic fumes under fire conditions.
- Special Firefighting Procedures:**
Wear respirator, contain runoff water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:**
Keep out of the reach of children. Abstain from contact with eyes, skin and clothing. Avoid inhalation of spray mists. After handling thoroughly wash with soap and water.
- Environmental Precautions:**
Avoid product spillage from getting in drinking water supplies or streams.
- Clean Up:**
Absorb inert material. Place in disposable container. Flush cleaned area with water to dilute to a harmless solution.

SECTION 7. HANDLING AND STORAGE

- Storage:**
Keep product in original container. Store in a cool dry place away from children as well as food and feed products.
- Transfer Equipment:**
During product transfer use a chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Splash-proof safety goggles. Face shield is advised. Contact lenses should not be worn when working with this product.

Skin: Avoid skin contact. Wear protective clothing and gloves while handling this product.

Respiratory: Avoid inhaling spray mist.

Ventilation: No TLV established but would recommend.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid.
Weight Per Gallon:	9.7 lbs @ 68°F.
Odor:	N/A.
pH:	N/A.
Vapor Pressure:	N/A.
Vapor Density (Air=1):	N/A.
Boiling Point:	>212°F.
Freezing Point:	<32°F.
Water Solubility:	Soluble.
Density:	N/A.
Evaporation Rate:	N/A.
Viscosity:	N/A.
% Volatile:	<0.5%.
Octanol/Water Partition Coefficient:	N/A.
Saturated Vapor Concentration:	N/A.
Flash Point:	Non-Flammable.
Upper Explosive Limit:	N/A.
Lower Explosive Limit:	N/A.

SECTION 10. STABILITY AND REACTIVITY

Stable:	Yes.
Avoid:	N/A.
Incompatibility:	Highly alkaline materials, oxidizers and peroxides.
Hazardous Decomposition Products:	May emit sulfur dioxide dioxide under fire conditions.
Hazardous Polymerization:	Should not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Effects:

Inhalation may cause irritation of nose, throat and upper respiratory tract. Contact with eyes may cause irritation. Ingestion may result in irritation, burns, nausea and vomiting.

Subchronic Effects: N/A.

Chronic Effects: None noted.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	N/A.
Toxicity to Fish and Invertebrates:	N/A.
Toxicity to Plants:	N/A.
Toxicity in Birds:	N/A.

SECTION 13. DISPOSAL CONSIDERATION

Dispose of waste materials and containers according to local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Ag Adjuvant, Liquid. NMFC Item 42652, Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: N/A

SARA TITLE III, Section 313 Toxic Chemicals: N/A

PROPOSITION 65 (CA): Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER

The above information is based on data of which the manufacturer is aware and is believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.