SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Common Name: CM Liquid Manganese 7%
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:
Emergency Telephone: (559) 435-1052

In Case of Fire: 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.
If on Skin or Hair: 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 lower and upper lids. Get medical attention if irritation persists.
If Inhaled: Remove from contaminated atmosphere. Inhalation may be irritating to respiratory tract. Obtain medical attention if breathing becomes difficult.

Storage:

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

Disposal:

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

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

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

SECTION 3. HAZARDOUS INGRIDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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. May be irritating to respiratory tract. See a physician if breathing becomes difficult.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Media as needed to control primary source of fire.

Specific Hazards During Fire Fighting:

N/A.

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:

Clean liquid or absorb the liquid onto an absorbent material and package to be disposed.

SECTION 7. HANDLING AND STORAGE

Storage:

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

List	Components	CAS NO.	Type	Value
N/A.				

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 impervious clothing.
Respiratory: Avoid inhaling spay mist.
Ventilation: No TLV established but would recommend.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid.
Weight Per Gallon:	10.7 lbs
Odor:	Slight lignin odor.
pH:	5.5.
Vapor Pressure:	N/A.
Vapor Density (Air=1):	N/A.
Boiling Point:	>212°F
Freezing Point:	N/A.
Water Solubility:	Soluble
Density:	N/A.
Evaporation Rate:	N/A.
Viscosity:	N/A.
% Volatile:	N/A.
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:	Thermal degradation at high temperatures above 1067°F may produce sulfur trioxide.
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 CONSIDERATIONS

Dispose of waste materials and containers according to local, state and federal regulations. Entering or leading to surface waters that cause a sheen must also be reported.

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.