

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CM LIQUID MANGANESE 7% JANUARY 3, 2000

MANUFACTURER: Custom Agricultural Formulators
P.O. Box 26104
Fresno, CA 93729
EMERGENCY PHONE NO: (559) 435-1052

I. HAZARDOUS INGREDIENTS

Proprietary mixture of Manganese Lignosulfonate

II. PHYSICAL AND CHEMICAL CHARACTERISTICS

STABILITY: Stable
INCOMPATIBILITY: Avoid highly alkaline materials, oxidizers, peroxide
HAZARDOUS
POLYMERIZATION: Should not occur
SOLUBILITY: Soluble
APPEARANCE: Brown liquid
BOILING POINT: > 572°F
WEIGHT PER GAL: 10.7 lb @ 68°F
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
EVAPORATION: N/A

III. FIRE AND EXPLOSION DATA

FLASH POINT: Non-flammable
AUTOIGNITION: N/A
EXTINGUISHING MEDIA: Media as needed to control primary source of fire.
SPECIAL FIREFIGHTING PROCEDURES: Wear respirator, contain runoff water

IV. PHYSIOLOGICAL & HEALTH EFFECTS

ACCUTE DANGERS TO HEALTH: None established
POTENTIAL CARCINOGEN DATA: Not listed:
CHRONIC HEALTH EFFECTS: None noted
ACUTE HEALTH 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.

V. EMERGENCY & FIRST AID PROCEDURES

EYES: Wash eyes for at least 15 minutes with water. If irritation persists.. see a physician.
SKIN: Wash with water. If irritation persists, see a physician.
INHALATION: Inhalation may cause irritation to the respiratory tract. See a physician.
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.

VI. SPECIAL PROTECTIVE INFORMATION

EYE PROTECTION: To minimize eye contact, wear goggles while using this product. .
SKIN PROTECTION: To minimize skin contact, wear protective clothing and gloves while handling this product..
RESPIRATORY PROTECTION: Avoid inhaling spray mist.

VII. ENVIRONMENTAL PROTECTION

ENVIRONMENTAL IMPACT: THIS PRODUCT, WHEN USED AS DIRECTED BY THE LABEL, IS NOT EXPECTED TO HAVE ANY SIGNIFICANT IMPACT ON THE ENVIRONMENT. **PRECAUTIONS IF MATERIAL IS RELEASED OR SPILLED:** ABSORB IN INERT MATERIAL. PLACE IN DISPOSABLE CONTAINER. FLUSH CLEANED AREA WITH WATER TO DILUTE TO HARMLESS SOLUTION. **WASTE DISPOSAL METHODS:** DISPOSE OF WASTE MATERIALS AND CONTAINERS ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

VIII. SPECIAL PRECAUTIONS

READ AND OBSERVE ALL PRECAUTIONS ON THE PRODUCT LABEL. KEEP PRODUCT IN ORIGINAL CONTAINER. 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 INFORMATIONS, 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.