

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MANGANESE X-TRA

JAN 1, 1999

MANUFACTURER: Custom Agricultural Formulators
P.O. Box 26104
Fresno, CA 93729

EMERGENCY PHONE NO: (559) 435-1052

I. HAZARDOUS INGREDIENTS

Proprietary mixture of Manganese Sulfate and organic complexors

II. PHYSICAL AND CHEMICAL CHARACTERISTICS

STABILITY: STABLE

INCOMPATIBILITY: AVOID HIGHLY ALKALINE MATERIALS, OXIDIZERS, PEROXIDE

HAZARDOUS POLYMERIZATION: SHOULD NOT OCCUR

SOLUBILITY: SOLUBLE

APPEARANCE: CLEAR LIQUID

BOILING POINT: > 572°F

WEIGHT PER GAL: 10.84 lbs @ 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

IMMEDIATELY DANGEROUS TO LIFE AND HEALTH DATA: NONE ESTABLISHED

POTENTIAL CARCINOGEN DATA: NOT LISTED:

CHRONIC HEALTH EFFECTS: NONE NOTED

ACUTE HEALTH EFFECTS: INHALATION CAUSES IRRITATION OF NOSE, THROAT AND UPPER RESPIRATORY TRACT. CONTACT WITH EYES MAY CAUSE IRRITATION. PROLONGED SKIN

CONTACT MAY RESULT IN IRRITATION. INGESTION MAY RESULT IN IRRITATION, BURNS, NAUSEA AND VOMITING.

V. EMERGENCY & FIRST AID PROCEDURES

EYES: WASH EYES FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEE A PHYSICIAN.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION OR SYMPTOMS PERSIST, SEE A PHYSICIAN.

INHALATION: INHALATION OF SPRAY MIST MAY BE IRRITATING TO RESPIRATORY TRACT.

INGESTION: NAUSEA, GASTRIC DISTRESS MAY RESULT FROM SWALLOWING LARGE AMOUNTS OF PRODUCT. IF PERSON IS CONSCIOUS, GIVE LARGE AMOUNTS OF WATER AND INDUCE VOMITING. CALL PHYSICIAN.

VI. SPECIAL PROTECTIVE INFORMATION

EYE PROTECTION: TO MINIMIZE EYE CONTACT, WEAR GOGGLES WHILE HANDLING THIS PRODUCT.

SKIN PROTECTION: TO MINIMIZE SKIN CONTACT, WEAR FULL LENGTH CLOTHING AND GLOVES WHILE HANDLING THIS PRODUCT.

RESPIRATORY PROTECTION: AVOID BREATHING 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 BELIEVES 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.