

*Chem Star Agri Products, Inc.
PO Box 578
107 W Main St.
Parma, MO 63870*

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT DESCRIPTION

TRADE NAME (COMMON NAME OF SYNONYM)
6% Manganese EDTA

COMPANY PRODUCT CODE

CHEMICAL NAME:
Dipotassium Manganese Ethylenediaminetetraacetate
(MN K2 EDTA)

AGRICULTURAL DESIGNATION

SECTION II - HAZARDOUS INGREDIENTS (MIXTURE)

CHEMICAL & CAS NO.	% PERCENT	TLV OR PEL
68015-77-0	PROPRIETARY	N/A

SECTION III – PHYSICAL DATA

BOILING POINT: >212°F	SPECIFIC GRAVITY: 1.319
WATER SOLUBILITY: Soluble	PH OF SOLUTION: 7.0
APPEARANCE: Colorless to light pink liquid	ODOR: No odor
SALTING-OUT TEMPERATURE: Less than 0 F	VAPOR PRESSURE: N/A
% VOLATILE BY VOLUME: N/A	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not flammable
FLAMMABLE LIMIT-LEL: Not flammable
EXTINGUISHING MEDIA: Water spray, Foam, Carbon Dioxide, Dry-Chemical
SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.

UNUSAL FIRE AND EXPLOSION HAZARDS: Avoid high temperatures that may cause thermal decomposition or explosion, especially in confined or poorly ventilated spaces.

SECTION V - HEALTH AND FIRST AID DATA

EFFECTS OF OVER EXPOSURE: MIST MAY BE IRRITATING TO THE RESPIRATORY TRACT. RESPONDERS SHOULD BE PREPARED WITH SUITABLE GAS MASKS OR APPROPRIATE SELF-CONTAINED BREATHING APPARATUS (SCBA). NOT D.O.T. REGULATED

SYMPTOMS OF OVER EXPOSURE:

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN ULCERATIONS AND/OR BURNS

EYES: MAY CAUSE INFLAMMATION, REDNESS, AND POSSIBLE DAMAGE WITH PROLONGED EXPOSURE.

INHALATION: IT MAY CAUSE HEADACHES, NAUSEA, OR WEAKNESS IN CASE OF PROLONGED EXPOSURE. OXYGEN CAN BE ADMINISTERED IF BREATHING BECOMES DIFFICULT.

FIRST-AID MEASURES

INHALED: REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CONTACT A MEDICAL PHYSICIAN

INGESTED: CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY FOR MOST CURRENT INFORMATION. DILUTE WITH LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY A MEDICAL PROFESSIONAL.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

EYE CONTACT: FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS OCCASIONALLY.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS AND PRESSURE.

CONDITIONS TO AVOID IF UNSTABLE: STRONG ACIDS

INCOMPATIBILITY WITH OTHER MATERIALS: AVOID HIGH HEAT

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID UNCONTROLLED POLYMERIZATION: NOT APPLICABLE

SECTION VII - SPILL & DISPOSAL PROCEDURES

FOR SMALL OR INCIDENTAL SPILLS, THE MINIMUM PERSONAL PROTECTIVE EQUIPMENT SHOULD BE RUBBER GLOVES, RUBBER APRON, AND CHEMICAL GOGGLES.

UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAINED PERSONNEL USING PRE-PLANNED PROCEDURES. PROPER PROTECTIVE EQUIPMENT SHOULD BE USED. GAS MASKS WITH AMMONIA CANISTER OR SCBA GEAR MAY BE REQUIRED. FOR LARGE SPILLS, CONTAIN BY DIKING WITH SOIL OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL. DILUTION WITH WATER WILL REDUCE THE RELEASE OF AMMONIA VAPORS. KEEP MATERIAL OUT OF SEWERS, STORM DRAINS, AND SURFACE WATERS. COMPLY WITH ALL APPLICABLE GOVERNMENT REGULATIONS ON SPILL REPORTING, HANDLING, AND WASTE DISPOSAL.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

IF WORK CONDITIONS GENERATE VAPORS OR MIST, WEAR A NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THOSE EMISSION LEVELS.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES.

EYE PROTECTION: CHEMICAL SAFETY GOGGLES WITH SIDE SHEILDS. AS A GENERAL RULE, DO THIS HANDLING CHEMICALS.

OTHER PROTECTIVE EQUIPMENT: AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY AND READY TO USE.

SECTION IX - SPECIAL PRECAUTIONS IN HANDLING AND STORAGE

STORE IN A COOL (ABOVE 32°F), DRY, WELL-VENTILATED AREA. THIS PRODUCT SHOULD BE STORED IN TANKS CONTRUCTED OF STAINLESS STEEL, FIBERGLASS, POLYPROPYLENE, OR POLYETHYLENE. VALVES SHOULD BE INSPECTED ON A REGULAR BASIS AND REPLACED AS NEEDED TO PREVENT LEAKAGE. DO NOT STORE IN ALUMINUM VESSELS.

DO NOT BREATHE MISTS. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH WITH SOAP AND WATER AFTER HANDLING. AVOID GETTING CHEMICALS ON YOU OR IN YOU. WASH HANDS WITH SOAP AND WATER AFTER HANDLING CHEMICALS. DO NOT EAT OR DRINK AROUND OR WHILE HANDLING CHEMICALS. KEEP OUT OF REACH OF CHILDREN.

SECTION X - REGULATORY COMMENTS AND OTHER EFFECTS

SARA REPORTING REQUIREMENTS: SARA, TITLE III, SECTION 313: This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372). Manganese Compounds 60% by weight.

CALIFORNIA PROPOSITION 65: WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**** NOTICE ****

Seller warrants that this Product conforms to the specifications stated here associated with the possession,use,mixing,blending,treatment,storage,disposal,transportaation and handling of the Product,whether alone or in combination with other substances. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATEVER,EXPRESSED IMPLIED,AND ALL OTHER WARRANTIES,INCLUDING WARRANTIES OF QUALITY,MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE,ARE DISCLAIMED. Seller's liability is limit to the product price.

NFPA HAZARDOUS RATING

(0 = least; 1 = slight; 2 = moderate; 3 = high; 4 = extreme)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0