



SAFETY DATA SHEET

DATE PREPARED: 02/06/17

CURRENT AS OF: 7/21/21

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10003282

PRODUCT NAME: 6% Manganese Solution

PRODUCT USE: Fertilizer micronutrient

MFR INFO: The Andersons, Inc.
PO Box 119
Maumee, OH 43537

FOR EMERGENCY: (800) 757-8951
FOR INFORMATION: (419) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



DANGER

**FATAL IF SWALLOWED
MAY CAUSE EYE IRRITATION
MAY CAUSE RESPIRATORY IRRITATION**



HAZARD CLASSIFICATIONS:

ACUTE TOXICITY

EYE IRRITATION

TARGET ORGAN SYSTEMIC TOXICITY

CATEGORY

2

2A

3

INTERPRETATION

High

Eye Irritation Possible

Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- *KEEP OUT OF REACH OF CHILDREN*
- *READ LABEL BEFORE USE*
- *IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL ON HAND*
- *IF SWALLOWED, IMMEDIATELY CALL A POISON CENTER / PHYSICIAN – RINSE MOUTH*
- *IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER*
- *IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE*
- *IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES – REMOVE CONTACT LENSES*
- *IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE*
- *DO NOT EAT, DRINK, OR SMOKE WHEN USING PRODUCT*
- *WASH HANDS AFTER HANDLING*
- *USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS*
- *AVOID BREATHING MIST*
- *IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING*

EX MANGANESE 6% EDTA

- *STORE CONTAINER TIGHTLY CLOSED, LOCKED UP*
- *DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS*

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| <u>CHEMICAL IDENTITY</u> | <u>SYNONYM</u> | <u>CAS #</u> | <u>CONCENTRATION (%)</u> |
|---|----------------|--------------|--------------------------|
| Manganese EDTA, dipotassium salt solution | | 68015-77-0 | 100.0 |

SECTION 4: FIRST AID MEASURES

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|--------------------|--|
| IF INHALED: | Move victim to fresh air. Seek medical attention if irritation persists. |
| IF ON SKIN: | Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use. |
| IF IN THE EYES: | Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists. |
| IF SWALLOWED: | If victim is alert and not convulsing, give one glass of water to dilute material, but DO NOT induce vomiting. Seek immediate medical attention. |
| SPECIAL TREATMENT: | None known |
| HEALTH HAZARDS: | See Section 11 |

SECTION 5: FIREFIGHTING MEASURES

| | |
|----------------------------------|---|
| EXTINGUISHING MEDIA: | Use media suitable for surrounding fire. No special media required. |
| SPECIFIC FIRE HAZARDS: | Decomposition products may be toxic. |
| SPECIAL FIREFIGHTING PROCEDURES: | Wear full protective clothing and positive-pressure self-contained breathing apparatus. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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|-----------------------------|--|
| SPILL / RELEASE PROCEDURES: | Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly. |
| ENVIRONMENTAL PRECAUTIONS: | Prevent spilled material from entering storm drains or water bodies. |
| PROTECTIVE EQUIPMENT: | See Section 8 |

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry, well ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTIONEXPOSURE LIMITS:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

EX MANGANESE 6% EDTA**HAZARDOUS COMPONENT****OSHA PEL****ACGIH TLV**

Manganese EDTA, dipotassium salt solution

2 mg/m³ (CEILING) (KOH)**PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:**

RESPIRATORY PROTECTION: NIOSH approved particulate / mist respirator, if required

EYE PROTECTION: Safety glasses with sideshields, goggles, or faceshield recommended

SKIN PROTECTION: Long sleeves, protective (rubber) gloves recommended

VENTILATION: Local exhaust ventilation recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark amber / maroon liquid with no appreciable odor

pH: 7.0

MELTING POINT: Not applicable

BOILING POINT: ~ 220°F

FLASH POINT: Not flammable

EVAPORATION RATE: Not available

FLAMMABLE LIMITS: Not applicable

VAPOR PRESSURE: Not available

VAPOR DENSITY: Not available

SPECIFIC GRAVITY: 1.35

SOLUBILITY (IN WATER): Soluble

PARTITION COEFFICIENT: Not available

AUTOIGNITION TEMP: Not available

DECOMPOSITION TEMP: Not available

ODOR THRESHOLD: Not available

VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID: Excessive heat

INCOMPATIBILITY: Strong acids, oxidizers, bases

HAZARDOUS DECOMPOSITION PRODUCTS: CO_x, NO_x, NH₃, metal oxides

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May be irritating to the eyes, skin, nose, throat, and respiratory tract, and may cause sore throat, coughing, shortness of breath, and increased pulse rate and blood pressure. Significant overexposure may result in severe skin burns / blisters, corneal ulcers, blindness, nausea, vomiting, headache, weakness, dizziness, and stupor.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens.

INGREDIENT TOXICITY RANGES:

ORAL: 30 mg/kg (EDTA)

DERMAL: None listed

INHALATION: 30 mg/m³ (EDTA)

SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate. EDTA and associated chelates are expected to leach readily through soil and increase soil solubility of metals.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

SECTION 16: OTHER INFORMATION

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|---------------|--------------|---|
| NFPA RATINGS: | HEALTH | 2 |
| | FLAMMABILITY | 0 |
| | INSTABILITY | 0 |

| | | |
|---------------|-----------------|---|
| HMIS RATINGS: | HEALTH | 2 |
| | FLAMMABILITY | 0 |
| | PHYSICAL HAZARD | 0 |

DATE PREPARED: 3/24/13
CURRENT AS OF: 7/21/21

PREPARED BY: SS