



Safety Data Sheet

Manganese EDTA 6%

SECTION 1: Identification

1.1 GHS Product identifier

Product name Manganese EDTA 6%

1.2 Recommended use of the chemical and restrictions on use

Micronutrient Fertilizer

1.3 Supplier's details

Name CAROLINA EASTERN, INC.
Address 347 McAllister Mill Road
Scranton SC 29591
USA

Telephone 843-389-2761

1.4 Emergency phone number

CHEMTREC Administrative Office Telephone number: 1-800-262-8200

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation (C.4.4), Cat. 2
- Eye damage/irritation (C.4.5), Cat. 2A

2.2 GHS label elements, including precautionary statements.

Pictograms



1. Exclamation mark

Hazard statement(s)

Causes skin irritation.
Causes serious eye irritation.
May be harmful if swallowed.

Safety Data Sheet

Manganese EDTA 6%

Precautionary statement(s)

P264	Wash thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell,
P330	Rinse mouth.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Manganate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-kappaO)methyl]glycinato-kappaN,kappaO]](4-)]-, potassium (1:2), (OC-6-21)-

Concentration	55 % (weight)
CAS no.	68015-77-0

2. Water/Aqua/Eau

Concentration	45 % (weight)
CAS no.	7732-18-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed.

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Safety Data Sheet

Manganese EDTA 6%

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical.

None that are known.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not use direct water streams. May spread fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3 Methods and materials for containment and cleaning up.

Soak up with inert absorbent material (e.g., sand, silica gel). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a cool, dry place. Keep containers tightly closed when not in use. Store at ambient temperatures

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Safety Data Sheet

Manganese EDTA 6%

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Pink-Purple
Color	Pink-Purple
Odor	Not Available
Odor threshold	Not Available
Melting point/freezing point	Not Available
Boiling point or initial boiling point and boiling range	Not Available
Flammability	Not Available
Lower and upper explosion limit/flammability limit	Not Available
Flash point	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	Not Available
Kinematic viscosity	Not Available
Solubility	Appreciable
Partition coefficient n-octanol/water (log value)	Not Available
Vapor pressure	Not Available
Evaporation rate	Not Available
Density and/or relative density	10.79 lbs./gal, 1.293 (SG)
Relative vapor density	Not Available

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions. Sensitive to extreme temperatures.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None that are known.

10.4 Conditions to avoid.

Safety Data Sheet

Manganese EDTA 6%

None that are known.

10.5 Incompatible materials

None that are known.

10.6 Hazardous decomposition products

None that are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

None that are known.

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available

Carcinogenicity

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

Toxicity

No data available on product

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

Safety Data Sheet

Manganese EDTA 6%

No data available

Other adverse effects

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging disposal

Dispose of as unused product.

Other disposal recommendations

Do not dump into any sewers, on the ground or into any body of water.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 311/312 Hazards

Acute Health Hazard

Canadian Domestic Substances List (DSL)

Chemical name: Manganate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dipotassium, (OC-6-21)-
CAS: 68015-77-0

HMIS Rating

Health	1
Flammability	0
Physical hazard	0
Personal protection	

NFPA Rating

Health hazard	1
Fire hazard	0
Reactivity hazard	0
Special hazard	

Safety Data Sheet
Manganese EDTA 6%

SECTION 16: Other information

Certification Date: November 29, 2023

16.1 Further information/disclaimer

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

16.2 Preparation information

Prepared by IMS Labs, - Crop Excellence Regulatory Consultant