



Version: 1.0 Issue date: Oct. 1, 2024

MATERIAL SAFETY DATA SHEET OF

EDTA SODIUM MANGANESE SALT

SECTION 1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai, R.P. China

FAX: +86 21 63065878

TEL: +86 21 63065878

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Product name: EDTA Mn, EDTA Manganese Sodium

Synonym: EDTA Mn Salt

Description appearance : Pure Light Pink Powder. Free Flowing.

Product Use: Chelating agent

Chemical characterization: it is a stable water soluble metal chelate, mainly used in agriculture and horticulture as micronutrient, and Manganese is present in a chelated form.

Information Department : Health, safety and Environmental Department

INGREDIENT	CAS No.	PERCENTAGE
EDTA Manganese Sodium	15375-84-5	99% Min.
Impurities	Not declared	Balance

SECTION 3. HAZARDS IDENTIFICATION

Hazard description: Not applicable

Information pertaining to particular dangers for man and Environment: Not applicable

Classification system

HMIS ratings (scale 0-4)(Hazardous Materials Identification System)

HEALTH (acute effects) = 1

FIAMMABILITY = 1

REACTIVITY = 1

SECTION 4. FIRST AID MEASURES

If inhaled: Remove the patient to an area of fresh air and place the patient in a comfortable breathing position. Get immediate medical attention.

If skin contact: Rinse thoroughly with water. Immediately remove/wash contaminated clothing and footwear.

If eye contact: Start rinsing with water as soon as possible and rinse carefully for several minutes. Get immediate medical attention

If ingestion: Rinse your mouth with plenty of water. Do not induce vomiting. Do not give anything to the victim by mouth if he or she is unconscious. Keep the victim warm with a blanket, etc. Get immediate medical attention. In case of vomiting, keep the head down so that the contents of the stomach do not reach the lungs. Apply artificial breathing if the victim is not breathing. The effect of exposure to the substance may be delayed. Medical observation is recommended.

Personal protection for First responders Aid:

Wear personal protective equipment as needed. (see section 8 exposure controls/personal protection).



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SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Carbon dioxide ,extinguishing powder or water spray.Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material,its products of combustion or resulting gases:

In case of fire,the following can be released: Carbon monoxide and carbon dioxide, Nitrogen oxides(NO_x),Metal oxide fume

Protective equipment: Wear self-contained respirator.Wear fully protective impervious suit.Special firefighting procedures

Further information: no data available

SECTION 6. ACCIDENT RELEASE MEASURES

Person-related safety precautions:

Wear protective equipment.Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting: Pick up mechanically.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Information for safe handling:

Keep container tightly sealed.Store in cool,dry place in tightly closed containers.

No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Keep container tightly sealed. Store in cool,dry conditions in well sealed containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace: Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures:



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The usual precautionary measures for handling chemical should be followed. Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form: powder Color: light pink

Odor: odorless

Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

Sublimation temperature/start: Not determined

Flash point: Not applicable

Flammability(solid,gaseous) Product is not flammable.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product does not present an explosion hazard

PH: 6.0-7.0(1% w/v Solution)

Explosion limits: Lower: Not determined Upper: Not determined

Vapor pressure: Not determined

Density: Not determined

Solubility in /Miscibility with Water: WATER-INSOLUBLE≤0.01%

SECTION 10. STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided: Acids, Oxidizing agents

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Nitrogen oxides(NOx) Metal

oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity: No acute toxicity known.

Primary irritant effect:

On the skin: May cause irritation

On the eye: May cause irritation

Subacute to chronic toxicity:

May cause vomiting, diarrhea, pink urine, black stool, and liver damage. May cause damage to the kidneys. Irritating to the



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respiratory tract, they may cause pulmonary fibrosis if dusts are inhaled.

Subacute to chronic toxicity:

Animal studies with EDTA salts have reported convulsions, weight loss, liver, kidney, ureter, and bladder changes. Fetotoxicity and developmental abnormalities have also been reported from studies on animals.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12. ECOLOGICAL INFORMATION

General notes: Do not allow material to be released to the environment without proper governmental permits

SECTION 13. DISPOSAL CONSIDERATION

Product: EDTA-MnNa₂

Recommendation: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Not a hazardous material for transportation.

Land transport (ARD/RID)

UN number: Not classified as dangerous for transport

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Subsidiary risk label: Not applicable

IATA -DGR

UN number: Not classified as dangerous for transport

UN proper shipping name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

IMDG-code:

UN Number: Not classified as dangerous for transport

Appropriate shipment name: Not applicable

Class: Not applicable

Packaging group: Not applicable

Subsidiary risk label: Not applicable

Marine pollutant: Not classified as dangerous for transport

EmS No.: F-A; S-B

SECTION 15. REGULATORY INFORMATION

Product related hazard information:

Observe the general safety regulations when handling chemicals.

Following the local regulations.

Information about limitation of use: For use only by technically qualified individuals.

SECTION 16. OTHER INFORMATION



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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

-- END OF MSDS --