



## Material Safety Data Sheet

### 1. Product Identification

- Trade Name: EDTA Mn
- Manufacturer: SHANXI IHUMATE BIOTECH CO.,LTD
- Address: No. 64 Nan Gou, Chen Village, Bailong Town, Huozhou, Linfen City, Shanxi Province,China.
- Tel. No.: +86- 18874230390

### 2. Hazards Identification

- Classification: Not classified as a hazardous substance or mixture according to GHS/UN regulations.
- Potential Health Effects:
  - Inhalation: May cause mild respiratory irritation if dust is inhaled in large quantities.
  - Skin Contact: May cause slight dryness or irritation; non-corrosive.
  - Eye Contact: May cause mild irritation, redness, or discomfort.
  - Ingestion: Low toxicity; may cause mild gastrointestinal discomfort if large amounts are swallowed.
  - Environmental Hazards: Non-toxic to aquatic life under normal agricultural use. Not a hazardous waste.

### 3. Composition / Information on Ingredients

<u>Component</u>	<u>Typical Content</u>
EDTA Mn	12.7%

### 4. First-Aid Measures

- Inhalation: Remove to fresh air. If breathing is difficult, seek medical attention.
- Skin Contact: Wash skin thoroughly with soap and plenty of water. Remove contaminated clothing.
- Eye Contact: Rinse cautiously with water for 15–20 minutes. Remove contact lenses if present. Seek medical advice if irritation persists.
- Ingestion: Do NOT induce vomiting. Rinse mouth with water. Drink plenty of water. Seek medical attention if discomfort occurs.

### 5. Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- Unsuitable Media: None.
- Fire Hazards: Not flammable. May decompose under extreme heat, releasing organic fumes.
- Special Fire-Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and full protective clothing.
- Hazardous Combustion Products: Carbon oxides, water vapor, trace organic fumes.

### 6. Accidental Release Measures

- Personal Precautions: Avoid dust generation. Wear gloves, dust mask, and goggles.

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- Environmental Precautions: Prevent entry into drains, waterways, or soil outside application areas.
- Methods for Cleanup: Sweep or vacuum spilled material. Collect in sealed containers for reuse or proper disposal. Do not discharge into the environment.

## 7. Handling and Storage

- Avoid generating dust. Use in well-ventilated areas.
- Wash hands after handling.
- Do not eat, drink, or smoke during use.
- Avoid contact with strong acids, strong oxidizers, or corrosive chemicals.
- Store in a cool, dry, well-ventilated area.
- Keep containers tightly closed to prevent moisture absorption and caking.
- Protect from direct sunlight, high temperature, and humidity.
- Keep away from incompatible materials (strong acids, strong oxidizers, corrosive chemicals).
- Storage temperature: 0°C – 35°C.
- Keep out of reach of children and unauthorized personnel.

## 8. Exposure Controls / Personal Protection

- Engineering Controls: Use local exhaust ventilation if dust is generated.
- Personal Protective Equipment (PPE):
  - Respiratory Protection: Dust mask or respirator if high dust exposure.
  - Hand Protection: Chemical-resistant gloves (nitrile or latex).
  - Eye Protection: Safety goggles.
  - Skin/Body Protection: Long sleeves, protective clothing.

## 9. Physical and Chemical Properties

- Appearance: White free-flowing crystalline powder, no visible impurities, no agglomeration
- Odor: Slight characteristic chelated manganese odor, no pungent/irritating smell
- Form: Powder solid
- pH (1% aqueous solution): 6.57
- Melting Point: Not applicable (decomposes)
- Boiling Point: Not applicable
- Flash Point: Not flammable
- Flammability: Non-flammable
- Solubility in Water: Partially soluble (organic & mineral fractions)
- Density (bulk): 0.65 – 0.80g/cm<sup>3</sup>
- Vapor Pressure: Negligible

## 10. Stability and Reactivity

- Stability: Stable under normal storage and handling conditions.

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- Conditions to Avoid: High heat, open flame, strong acids, strong oxidizers, excessive moisture.
- Incompatible Materials: Strong acids, strong alkalis, strong oxidizing agents, corrosive chemicals.
- Hazardous Decomposition Products: None under normal use. May release CO<sub>2</sub>, water vapor, and organic fumes at extreme temperatures.

## 11. Toxicological Information

- Acute Toxicity: Low acute toxicity.
- Oral LD<sub>50</sub>: >5000 mg/kg (non-toxic)
- Dermal LD<sub>50</sub>: >2000 mg/kg
- Skin Irritation: Mild irritant (non-corrosive).
- Eye Irritation: Mild irritant.
- Sensitization: Not expected to be a skin or respiratory sensitizer.
- Mutagenicity: No mutagenic effects known.

## 12. Ecological Information

- Aquatic Toxicity: Low toxicity to fish, algae, and aquatic organisms under normal agricultural use.
- Mobility: Partially mobile in soil; binds to organic and mineral particles.
- Persistence: Biodegradable; microorganisms and organic fractions degrade naturally in soil.
- Bioaccumulation: No bioaccumulation potential.
- Environmental Impact: Safe for soil, plants, and beneficial organisms when used as directed.

## 13. Disposal Considerations

- Dispose of unused product according to local, regional, and national regulations.
- Can be used as fertilizer or soil amendment; do not discard into waterways.
- Empty containers: Rinse and recycle if possible, or dispose as non-hazardous waste.
- Do NOT discharge into drains, sewers, or natural water bodies.

## 14. Transport Information

- UN Number: Not regulated for transport (UN3077, if applicable for environmentally hazardous substances – usually not required for this product).
- Proper Shipping Name: Not dangerous goods.
- Transport Class: Not classified.
- Packing Group: Not applicable.
- Special Precautions: Keep dry during transport. Protect from moisture, rain, and direct sunlight.

## 15. Regulatory Information

- This product complies with general agricultural chemical regulations. Not classified as a hazardous substance under GHS, OSHA, EPA, or international transport regulations.
- Use in accordance with local agricultural and environmental laws.

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**16. Other Information**

The information contained in this Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is not intended as a guide for the safe use, handling, disposal, storage and transportation and is not a warranty or as a specification. This information relates only to the product specified and may not be suitable for combinations with other materials or in the process other than those specifically described herein.

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