

## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Chemical Name: EDTA-4Na

(Ethylene Diamine Tetraacetic Acid tetrasodium salt tetrahydrated)

Synonyms: Tetrasodium EDTA, Tetrahydrate

CAS No.: 13236-36-4

Molecular Weight: 452.23

Chemical Formula: C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O<sub>8</sub>Na<sub>4</sub>•4H<sub>2</sub>O

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#### Emergency telephone number

Emergency Phone: +86 531 82956570

### 2. Composition/Information on Ingredients

Ingredient: Percent Hazardous

Ethylenediaminetetraacetic Acid ≥99.0% Yes

Tetrasodium Salt

### 3. Hazardous Identification

Emergency Overview

WARNING MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN AND RESPIRATORY TRACT. CAUSES EYE IRRITATION.

Health Rating: 1-Slight

Flammability: 1-Slight

Reactivity Rating: 0-None

Contact Rating: 1-Slight

Lab Protective Equip: GOGGLES, LAB COAT

Storage Color Code: Orange(General Storage)

Potential Health Effects:

There is insufficient data in the published literature to perform a complete hazard evaluation for this product. Special precautions must be used in storage, use and handling. Protective equipment should be chosen using professional judgment.

Inhalation

Mild irritant. Symptoms may include coughing on sneezing. May cause irritation to the respiratory tract.

Ingestion:

Substance has low toxicity by ingestion. Large amount may cause gastric upset due to osmotic imbalance through the sequestering of metal ions.

Skin Contact:

Mild irritant. Symptoms may include reddening or inflammation on prolonged contact.

Eye Contact:

Causes irritation. Solutions are severe irritants to the eye and cause pain,



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blurred vision.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

### **4. First Aid Measures**

Inhalation:

If inhaled, remove to fresh air. If not, breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Lifting lower and upper eyelids occasionally. Get medical attention immediately.

### **5. Fire Fighting Measures**

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

### **6. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

### **7. Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### **8.Exposure Control/Personal Protection**

Airborne Exposure Limits.

-OSHA Permissible Exposure Limit (PEL);

15mg/m<sup>3</sup> total dust, 5mg/m<sup>3</sup> respirable fraction for nuisance dust;

-ACGI Threshold Limit Value (TLV);

10mg/m<sup>3</sup> total dust containing no asbestos and <1% crystalline silica for  
Particulates Not Otherwise Classified (PNOC).

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded and engineering controls are not feasible, a half face-piece particulate respirator (NIOSH type N95 or better filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified in instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## **9. Physical and Chemical Properties**

Appearance: White powder

Odor: Odorless

Solubility: Soluble in water

Specific Gravity: No information found

PH: 1% soln-11.3

% Volatiles by volume @ 21C (70F):0

Boiling Point: No information found

Melting Point: No information found

Vapor Density (Air-1): No information found

Vapor Pressure (mm Hg): No information found

Evaporation Rate (Bu/c=1): No information found

## **10. Applications :**

As one chelating agent ,it can be used in industrial cleaning, personal and household uses, Bleaching of pulp and textiles, Micronutrients for agriculture, Photo processing, Printing ink manufacturing , Food, Polymer processing and Metal plating etc

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**11. Solubility and Reactivity**

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities: Oxidizing agents

Conditions to Avoid: No information found

**12. Toxicological Information**

-Cancer Lists

---NIP Carcinogen---

Ingredient Known Anticipated IARC Category

Ethylenediaminetetraacetic Acid No No None

**13. Ecological Information**

Environmental Fate: No information found

Environmental Toxicity: No information found

**14. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unusual contents in accordance with federal, state and local requirements.

**15. Transport Information:**

Not regulated.

**16. Regulatory information**

NA