

MATERIAL SAFETY DATA SHEET

July 1, 1986

SECTION I NAME

ETHYLENE DIAMINE, TETRAACETIC-ACID, DISODIUM

Product Chemical Synonyms: Disodium Edetate; EDTA, 2NA

Formula: $(HO_2CCH_2)_2N(CH_2)_2N(CH_2CO_2Na)_2 \cdot 2H_2O$

Units) Size: 25, 100, 500 grams

C.A.S. No.: 139-33-3

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s): Ethylenediamine tetraacetic acid, Disodium

%	TLV Units
100%	None established

CAUTION! IRRITATING TO SKIN AND EYES

SECTION III PHYSICAL DATA

Melting Point (°F): Approx. 220° C (dec.)

Boiling Point (°F): Decomposes

Vapor Pressure (mm Hg): Negligible as solid

Vapor Density (Air = 1): 12.8

Solubility in Water: 0.5 grams per liter at 25° C

Appearance and Odor: White crystalline powder; no odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 500° F (C.O.C.)

Extinguisher: Water spray; carbon dioxide (CO₂); dry chemical (ABC).

Special Firefighting Procedures: In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard; when heated emits smoke. Fire or excessive heat may produce hazardous decomposition of various hydrocarbons, oxides of nitrogen (NO_x) and smoke; may react with strong oxidizing materials.

D.O.T. NON-REGULATED

MSDS No. Effective Date

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SECTION V HEALTH HAZARD DATA

Threshold Limited Value: None established. (ACGIH 1983-84).

Effects of Overexposure: **INGESTION:** There have been reports of kidney injury in man following use of this type of compound for treating lead poisoning. EDTA-disodium may cause hypocalcemic tetany and a negative calcium balance. **EYES:** No specific hazard is known. However, any material that contacts the eye may be irritating. **SKIN:** Low hazard. May cause slight irritation.

Emergency and First Aid Procedures: None specifically indicated for this material. **INHALATION OF DUST:** Remove to fresh air. If ill effects or discomfort develop, get medical attention. **EYES:** Flush thoroughly with large amounts of water for at least 15 minutes. If irritation develops or persists, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and call physician. **SKIN:** Flush with water.

SECTION VI REACTIVITY DATA

Stability: Unstable

Incompatibility (Materials to avoid): Has characteristics of a weak acid, displaces carbon dioxide from carbonates and reacting with metals to form hydrogen. Strong oxidizing materials.

Hazardous Decomposition Products: When heated to decomposition, emits toxic fumes of various hydrocarbons, carbon dioxide and/or carbon monoxide and oxides of nitrogen (NO_x).

Hazardous Polymerization: Will Not Occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Wearing suitable protective clothing, sweep material onto paper. Place in a suitable container for disposal by incineration. Wash spill area well with soap and water.

Waste Disposal Method

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection: None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH-approved dust mask.

Ventilation: Local Exhaust: Not-needed. Mechanical(General): Not-needed.

Protective Gloves: Rubber, for repeated contact

Other Protective Equipment: Lab coat, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Store in a cool, dry place away from oxidizing materials. Wash thoroughly after handling.

Other Precautions: Read label on container before using. Do not get in eyes, on skin, on clothing. Avoid breathing dust.

Rev. No. 1/12/87 Approved [Signature] Chemical Safety Coordinator

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