MATERIAL SAFETY DATA SHEET

SECTION I NAME
Product: Ethylenediaminetetraacetic Acid, Disodium Salt, Hydrate
Chemical Synonyms: Disodium EDTA, Hydrate; EDTA Na2 Dihydrate
Formula: C_{10}H_{14}N_2Na_2O_{8}S_2H_2O
Unit Size: up to 2.5 Kg.
C.A.S. No.: 6381-92-6

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s) % TLV Units
Ethylenediaminetetraacetic acid, disodium salt, hydrate 100% None established.

SECTION III PHYSICAL DATA
Melting Point (°F) Not determined.
Boiling Point (°F) Not applicable.
Vapor Pressure (mm Hg) Not applicable.
Vapor Density (Air=1) Not applicable.
Solubility in Water ~ 10%
Appearance & Odor White crystalline powder; no odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used) Non-combustible.
Extinguisher Media Water spray; carbon dioxide; dry chemical; foam.

SPECIAL FIREFIGHTING PROCEDURES
In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Not considered a fire hazard. However, the potential for dust explosion may exist. Depending upon conditions, dusts may be sensitive to static discharge. Avoid possibility of dry powder and friction causing static electricity in presence of flammables.

SECTION V HEALTH HAZARD DATA
Threshold Limited Value
None established ACGIH 2001.
Toxicology: Oral-rat: LD50: 2000 mg/kg for EDTA

Effects of Overexposure
Inhalation of dusts or fumes may be irritating to the respiratory system. Contact with skin and eyes may cause irritation. If swallowed, this product may cause irritation of the mouth, throat and stomach and may cause nausea and vomiting. Target organs: None known.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA
Stability Unstable Conditions to Avoid Stable None established.
Incompatibility (Materials to Avoid) Strong oxidizers, iron, brass, copper and strong alkali. Avoid contact with aluminum, zinc and copper alloys.

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case of release of material
Sweep or wet vacuum and place into suitable containers for proper disposal. Wash spill area with soap and water.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilated hood or wear a NIOSH/MSHA-approved dust mask.
Ventilation Local Exhaust Recommended. Special No.
Mechanical (General) Recommended. Other No.
Protective Gloves Rubber. Eye Protection Chemical safety glasses.
Other Protective Equipment Gloves, safety glasses, lab coat, dust respirator, emergency eye wash station.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
Store in a cool, dry place away from incompatible materials. Wash thoroughly after handling.

Other Precautions
Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

Revision No. 7 Date 01/05/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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