MATERIAL SAFETY DATA SHEET

SECTION I  NAME

Product
Ethylenediaminetetraacetic acid

Chemical Synonyms
EDTA

Formula
C₁₀H₁₆N₂O₈

Unit Size
up to 2.5 Kg.

C.A.S. No.
60-00-4

SECTION II  INGREDIENTS OF MIXTURES

Principal Component(s) % TLV Units
Ethylenediaminetetraacetic acid min. 99%

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
0.03% @ 26°C.

Appearance & Odor
White crystalline powder; no odor.

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point
Non-combustible.

Flammable Limits in Air
% by Volume N/A

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 may cause mild irritation with coughing, soreness in respiratory tract, chest tightness and difficulty breathing. Contact with skin may cause irritation with stinging, redness and may cause swelling. Eye contact may cause irritation with tearing, stinging and/or redness. 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

Incompatibility
(Materials to Avoid)
Strong oxidizers, iron, brass, copper and strong alkali. Avoid contact with aluminum, zinc, nickel, copper and copper alloys.

Hazardous Decomposition Products
Thermal decomposition produces carbon oxides, nitrogen oxides, ammonia and water vapor.

Hazardous Polymerization
May Occur

Conditions to Avoid
Will Not Occur

SECTION VII  SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
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 dust conditions prevail, work in a ventilated hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation
Local Exhaust
Recommended.

Mechanical (General)
Special
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
Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid prolonged or repeated contact with skin and contact with eyes.
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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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20