Safety Data Sheet
Rev. 10/05/2010

Warning

Hazard information is provided for compliance with both the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME: Ethylenediaminetetraacetic Acid, (EDTA) Disodium Salt, Dihydrate

PRODUCT CODE: 15697

SUPPLIER: Affymetrix|USB, 26111 Miles Road, Cleveland, OH 44128 Phone: 216-765-5000

Please visit our website at www.affymetrix.com for contact information on USB product distributors within your area.

HAZARDS IDENTIFICATION

GHS
Acute oral toxicity (Category 5)
Hazardous to the aquatic environment, acute hazard (Category 3)

LABEL ELEMENTS

Hazard statements
H303 May be harmful if swallowed.
H402 Harmful to aquatic life.

Precautionary statements
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P273 Avoid release to the environment.
P501 Dispose of contents/containers to an approved disposal plant.

CHIP
Irritant

R & S phrases
R:36/37/38 Irritating to eyes, respiratory system and skin.
S:22 Do not breathe dust.
S:36/37 Wear suitable protective clothing and gloves.

COMPOSITION/INFORMATION ON INGREDIENTS

HAZARD
EDTA Disodium Salt, Dihydrate

CAS NO. 6381-92-6
EC NO. N/A
%WT ~100%

SYNONYMS
Edeate disodium, Ethylenediaminetetraacetic acid disodium salt dihydrate, Disodium ethylenediaminetetraacetate dihydrate, Edetate disodium salt dihydrate, Edathamil, EDTA disodium salt

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.
SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.
INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.
INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Emits toxic fumes under fire conditions.
NFPA Rating: H=1 F=1 R=0.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

HANDLING AND STORAGE

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection.
Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash. HMIS Rating: H=1 F=1 R=0.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder
Vapor Pressure: No data available
Solubility (Water): Soluble
Percent Volatile: No data available
Chemical Formula: C₁₀H₁₄N₂Na₂O₈·2H₂O
Boiling Point: No data available
Vapor Density: No data available
Specific Gravity: 45 lbs/ft³ (bulk density)
Evaporation Rate: No data available
Melting Point: 248°C

STABILITY AND REACTIVITY

Product is stable. Avoid moisture. Incompatible with strong oxidizing agents. Hazardous decomposition products include carbon, nitrogen oxides. Hazardous polymerization will not occur.

TOXICOCLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:
EYES: Contact may cause irritation and slight corneal injury.
SKIN: Contact may cause irritation and/or allergic reaction.
INHALATION: May be harmful if inhaled.
INGESTION: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
ADDITIONAL INFORMATION:
Mutation data listed in RTECS under AH4410000. Inhaling nuisance dust may cause coughing, wheezing, respiratory distress and mucous membrane irritation.
Product is a strong chelating agent and ingestion of large amounts may cause hypocalcemic tetany with spontaneous recovery.
Sodium salts of EDTA have been reported to cause birth defects in animals at very high doses not expected in occupational exposures. These effects were observed only at dose levels that were toxic to the animal’s mother.
Definitions: RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION
EC50 – Algae – 11 mg/l – 24 h

DISPOSAL CONSIDERATIONS
Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION
US DOT / IATA: No applicable information.

REGULATORY INFORMATION
RCRA - No applicable information.
SARA 302 - This material does not have an RQ or a TPQ.
SARA 313 - This material is not reportable under Section 313.
EPA TSCA Section 8(b) – No applicable information.
Exposure Limits - Not established.
California Proposition 65 - No applicable information.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.