



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No.: EE0090  
Effective Date: January 5, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Ethylenediaminetetraacetic acid
<b>Chemical Synonyms</b>	EDTA
<b>Formula</b>	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	60-00-4

 <b>NFPA</b> HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	<b>CHEMTREC</b> <b>800-424-9300</b> Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	1	Fire	1	Reactivity	0
	Health	1						
Fire	1							
Reactivity	0							
		<b>HMIS*</b>						

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethylenediaminetetraacetic acid	min. 99%	None established.
<b>CAUTION! IRRITATING TO SKIN AND EYES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Not determined.	Specific Gravity (H <sub>2</sub> O = 1)	Data not listed.
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate ( =1)	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

<b>Flash Point (Method Used)</b>	Non-combustible.	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	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.

**D.O.T. NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA EE0090

**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

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Stable at ambient temperatures and atmospheric pressures.
	<b>Stable</b>	X		

**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.

<b>Hazardous Polymerization</b>	<b>May Occur</b>	<b>Conditions to Avoid</b>	Not applicable.
	<b>Will Not Occur</b>		
	X		

## 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 dusty conditions prevail, work in a ventilated hood or wear a NIOSH/MSHA-approved dust mask.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	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.

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