



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. EE 90  
Effective Date February 23, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ETHYLENEDIAMINETETRAACETIC ACID	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	1	Reactivity	0
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<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																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethylenediaminetetraacetic Acid (Free Acid)	min. 99%	None established.

**CAUTION! IRRITATING TO SKIN AND EYES.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes @ 240°C (464°F)	Specific Gravity (H <sub>2</sub> O = 1)	0.86
Boiling Point (°F)	233°C (434°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	10.1		
Solubility in Water	0.03% @ 25°C.		
Appearance & Odor	White crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	None established.	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	Use any media suitable for extinguishing surrounding fire.				

### SPECIAL FIREFIGHTING PROCEDURES

Firefighters should use a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust-air mixtures may ignite or explode. Slight fire hazard when exposed to heat or flame. When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO<sub>x</sub>); can react vigorously with oxidizing materials.

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

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

## SECTION V HEALTH HAZARD DATA EE 90

**Threshold Limited Value** None established by (ACGIH 1992-93). RTECS No. AH4025000 Toxicity: Oral (Rat) - LD50 - 2000 mg/kg.; ipr-rat LD50: 397 mg/kg.; ipr-mus LD50: 250 mg/kg.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Respiratory system. Moderately toxic by oral ingestion and moderately irritating on contact. **SKIN:** May cause irritation. **EYES:** May cause irritation on contact. **INHALATION:** Inhaling dust may cause coughing, wheezing, respiratory distress, and mucous membrane irritation. **INGESTION:** May cause gastrointestinal irritation.

**Emergency and First Aid Procedures** **SKIN:** Flush thoroughly with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizers, aluminum and copper metal.

**Hazardous Decomposition Products** Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide and oxides of nitrogen.

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

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. Ventilate area. Sweep up and place in a suitable container for 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 incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

<b>Respiration Protection (Specify Type)</b>	None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dusk mask or work in ventilation hood.			
<b>Ventilation</b>	<b>Local Exhaust</b>	Not needed.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not needed.	<b>Other</b>	No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, lab coat, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry, well-ventilated area, away from oxidizing materials. Do not store in aluminum or copper containers. Wash thoroughly after handling. Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin or eyes. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 5	<b>Date</b> 2/23/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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