




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

Product	ETHYLENEDIAMINETETRAACETIC ACID	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2 HMIS * HIGH EXTREME 3 4	Health	2
Chemical Synonyms	EDTA		Fire	1
Formula	C ₁₀ H ₁₆ N ₂ O ₈		Reactivity	0
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 (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 ₂ 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

Flash Point (Method Used)	None established.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	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_x); can react vigorously with oxidizing materials.

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

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizers, aluminum and copper metal.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide and oxides of nitrogen.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

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.
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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.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or work in ventilation hood.		
Ventilation	Local Exhaust	Not needed.	Special
	Mechanical (General)	Not needed.	Other

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station.
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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.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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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.

Revision No. 5	Date 2/23/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. NON-REGULATED.

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