



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. TT 246
Effective Date November 20, 1998

SECTION V HEALTH HAZARD DATA

TT 246

Threshold Limited Value RTECS No. KL9275000 Toxicity data: Oral-rat LD50 9000 mg/kg, oral-mouse LD50 7400 mg/kg. TWA 3 ppm, 15 mg/m³ (Air) ACGIH 1992-93).

Effects of Overexposure Skin or eye contact may cause irritation, redness, pain. Inhalation of sufficient amounts may cause irritation to mucous membranes, with coughing, sore throat and shortness of breath. Ingestion of unneutralized solution may cause alkali burns of the mouth, pharynx and esophagus, gastrointestinal irritation, abdominal pain, vomiting and diarrhea.

Emergency and First Aid Procedures
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with soap and water. If irritation persists, get medical attention. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat, light; turns brown on exposure to air and light.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers, acids, copper or copper alloys.

Hazardous Decomposition Products Thermal decomposition products may include toxic oxides of carbon and nitrogen.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Ventilate area. Absorb with inert material and place in a suitable container for proper disposal. Wash spill area after material pick up is complete.

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 incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment Lab coat, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place. Wash thoroughly after handling. Avoid contact with strong oxidizers, excessive heat, sparks or open flame. 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.

Do not breathe vapors. Avoid contact with skin and eyes. Use 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 11/20/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	TRIETHANOLAMINE	 <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>1</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	1	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	1																	
Reactivity	2																	
Chemical Synonyms	2,2',2''-Nitrilotriethanol																	
Formula	(HOCH ₂ CH ₂) ₃ N																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	102-71-6																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Triethanolamine	99.5%	None established.

WARNING! MAY BE HARMFUL BY INHALATION, INGESTION OR SKIN ABSORPTION.

SECTION III PHYSICAL DATA

Melting Point (°F)	21-22°C (70-72°F)	Specific Gravity (H ₂ O = 1)	1.1242 @ 20°C
Boiling Point (°F)	340°C (644°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	<0.01 @ 20°C	Evaporation Rate (Butyl Acetate =1)	<0.01
Vapor Density (Air=1)	5.14		
Solubility in Water	Soluble.		
Appearance & Odor	Colorless to pale yellow, viscous, liquid; slight ammoniacal odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	177°C (350°F) cc	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Dry chemical; carbon dioxide; water spray; "alcohol" foam.			

SPECIAL FIREFIGHTING PROCEDURES If involved in fire situation, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-combustible mixtures.

Autoignition Temperature: 315°C (600°F)

UNUSUAL FIRE AND EXPLOSION HAZARDS Triethanolamine may become unstable at elevated temperatures. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Slight fire hazard when exposed to heat or flame. Can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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