MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No.: TT0246
Effective Date: April 4, 2005

SECTION I NAME

Product	Triethanolamine
Chemical Synonyms	2,2´,2´´-Nitrilotriethanol
Formula	$(HOCH_2CH_2)_3N$
Unit Size	up to 3.785 Lt.
C.A.S. No.	102-71-6

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300
Day 585-226-6177

NFPA: 1 (top), 1 (left), 0 (right)

HMIS *	
Health	1
Fire	1
Reactivity	0

HAZARD RATING

MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Triethanolamine	100%	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_2O = 1)	1.1242 @ 20°C
Boiling Point (°F)	360°C (680°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)	5.3		
Solubility in Water	Soluble.		
Appearance & Odor	Colorless to pale yellow, viscous, liquid; slight ammonia-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits in Air % by Volume	Lower	Upper
201.7°C (395°F) CC		1%	10%

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.

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

SECTION V HEALTH HAZARD DATA

TT0246

Threshold Limited Value

RTECS No. KL9275000 Toxicity data: Oral-rat LD50 9000 mg/kg, oral-mouse LD50 7400 mg/kg. TWA: 5 mg/m^3 ACGIH 2001).

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. Target organs: Kidneys.

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

Stability			Conditions to Avoid
	Unstable		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
May Occur	Will Not Occur	Not applicable.
	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.

Other Protective Equipment: Lab coat, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

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

Do not breathe vapors. Avoid contact with skin and eyes. Use adequate ventilation. Remove and wash contaminated clothing.

Revision No. 8	Date 04/04/05	Approved Michael Raszeja	Chemical Safety Coordinator MR