



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. AA 357
Effective Date September 28, 1998

SECTION V HEALTH HAZARD DATA AA 357

Threshold Limited Value None established for this mixture. TWA Triethylamine [CAS No. 121-44-8] 10 ppm; 40 mg/m³; STEL 15 ppm, 60 mg/m³ (Air).

Effects of Overexposure Toxicity data: None available for this solution. **ACUTE:** Triethylamine is a severe irritant to eyes and mucous membranes. May cause skin irritation. **CHRONIC:** Prolonged overexposure to Triethylamine may cause damage to liver and/or kidneys. For Triethylamine: Mutation data cited (RTECS, 1986), reproductive effects cited (RTECS No. YE0175000).

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

SECTION VI REACTIVITY DATA

Stability **Unstable** **Conditions to Avoid** Excessive heat and open flame.

Incompatibility (Materials to Avoid) Strong oxidizers, strong caustics.

Hazardous Decomposition Products If heated to decomposition, this product may produce ammonia as fumes, oxides of carbon and/or nitrogen.

Hazardous Polymerization **Conditions to Avoid** **May Occur** **Will Not Occur** 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. Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container. Wash spill area with soap and water. For small spills, cover with sodium bisulfate. Spray with water and flush to sewer with copious amounts of 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 system.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed under normal conditions of use with adequate ventilation. If airborne concentration is high, a NIOSH/MSHA-approved chemical cartridge respirator may be used.

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

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

Other Protective Equipment Lab coat, eye wash station, proper gloves, adequate ventilation.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep container tightly closed and store in a cool, dry well-ventilated area. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision No. 4 **Date** 9/28/98 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

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	ANESTHEFLY KIT
Chemical Synonyms	Triethylamine Mixture
Formula	Mixture. See Section II.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health	2
Fire	3
Reactivity	1

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Triethylamine: (CAS No. 121-44-8); RTECS No. YE0175000	>10	10 ppm (ACGIH TWA).
Ethyl Alcohol: (CAS No. 64-17-5); RTECS No. KQ6300000	>10	1000 ppm (ACGIH TWA).
DANGER! FLAMMABLE! HARMFUL IF SWALLOWED,		
INHALED OR ABSORBED THROUGH SKIN.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. -115°C (-175°F)	Specific Gravity (H ₂ O = 1)	Approx. 0.726-0.730 @ 20/20°C
Boiling Point (°F)	85-91°C (185-195°F) TEA	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	52 @ 20°C (68°F) TEA	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	3.5 (TEA)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless solution with pleasant sweet odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Approx. 20°F (-7°C)	Flammable Limits in Air % by Volume As TEA	Lower 1.2%	Upper 8.0%
Extinguisher Media	Use water spray; alcohol "foam"; dry chemical; or carbon dioxide.			

SPECIAL FIREFIGHTING PROCEDURES Fire fighters should wear full protective equipment and NIOSH/MSHA-approved self-contained breathing apparatus operated in pressure demand or other positive pressure mode. Use water spray to keep fire-exposed containers cool.

Autoignition Temperature: No information available.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Triethylamine vapors are heavier than air and may travel along the ground to a distant source of ignition and flash back.

D.O.T. **FLAMMABLE LIQUID, N.O.S., (TRIETHYLAMINE, DENATURED ETHYL ALCOHOL), 3, UN 1993, PG II**

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