



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. EE 80
Effective Date February 23, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	EHTYL ALCOHOL, DENATURED
Chemical Synonyms	Ethanol, Proprietary Solvent, 190 Proof
Formula	Mixture.
Unit Size	up to 20Lt.
C.A.S. No.	Mixture.

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

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

Health 3
Fire 4
Reactivity 2

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol, denatured: (CAS No. 64-17-5)	85.7%	PEL/TLV 1000 ppm
Water: (CAS No. 7732-18-5)	7.0%	None established.
Methyl Alcohol: (CAS No. 67-18-1)	3.6%	TWA: 200 ppm; STEL: 250 ppm (skin)

DANGER! FLAMMABLE. HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F) *	Specific Gravity (H ₂ O = 1)	0.814 @ 60°F
Boiling Point (°F)	75-80°C (163-174°F) *	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Ca 44.6 @ 68°F *	Evaporation Rate (Butyl Acetate =1)	4.1
Vapor Density (Air=1)	Ca 1.59 *		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless, mobile liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	(10°C) 50°F TCC.	Flammable Limits in Air % by Volume	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
Extinguisher Media	Water spray, carbon dioxide (CO ₂); dry chemical (ABC); alcohol-type, or universal-type foams.			

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Water spray may be used to keep fire exposed containers cool.
Autoignition Temperature: 363°C (685°F)

Contains Continued

Methyl Isobutyl Kerone: (CAS No. 108-10-1)...1.9%...TWA: 50 ppm; STEL: 75 ppm.

Ethyl Acetate: (CAS No. 141-78-6)...0.9%...TWA: 400 ppm.

Rubber hydrocarbon Solvent: (CAS No. 64742-89-8)...0.8%...TLV/TWA: 400 ppm.

* For Pure Ethyl Alcohol

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

D.O.T. DENATURED ALCOHOL, 3, NA 1987, PG II

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

SECTION V HEALTH HAZARD DATA

EE80

Threshold Limited Value

Ethyl Alcohol TWA: 1000 ppm; 1880 mg/m³ (Air). Methanol TWA: 200 ppm; 262 mg/m³ (Skin); Ethyl Acetate TWA: 400 ppm; 1440 mg/m³ (Air), (ACGIH 1992-93).

Effects of Overexposure

TARGET ORGANS AFFECTED: Eyes, central nervous system, liver, kidneys. **INGESTION:** Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting, inability to concentrate and irritation of the throat. **SKIN CONTACT:** Irritation and defatting of skin on prolonged contact. **EYE CONTACT:** May cause blindness.

Emergency and First Aid Procedures

INGESTION: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Heat, fire, ignition source.
	Stable	X	

Incompatibility (Materials to Avoid)	Concentrated nitric or sulfuric acid; contact with Acetyl chloride and strong oxidizing agents may react violently.
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Hazardous Decomposition Products	Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.
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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

Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent. Burn in an approved incinerator or open pit away from buildings and people.

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 or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	For normal laboratory use at room temperatures none should be needed with adequate room ventilation. If required work in fume hood. Do not use in confined area.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limits.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.
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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 any fire hazard. Use with adequate ventilation. Do not take internally.

Other Precautions

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

Wash thoroughly after handling.
Remove and wash contaminated clothing.

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

Revision No. 9	Date 2/23/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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