



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. EE 69
Effective Date February 13, 1998

SECTION V HEALTH HAZARD DATA

EE 69

Threshold Limited Value

Methanol TWA: (skin) 262 mg/m³; STEL: 328 mg/m³. IPA TWA: 400 ppm, 983 mg/m³; Methyl Isobutyl Ketone TWA: 205 mg/m³; STEL: 307 mg/m³.

Effects of Overexposure

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
	Stable	X Heat, fire, ignition source.

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	Not applicable.
	X	

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 material. Place in an appropriate 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.
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Dispose of in accordance with federal, state and local regulations.

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	No.

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. Keep away from heat, sparks and flames. Use with adequate ventilation. Do not take internally.
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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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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. 3	Date 2/13/98	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	ETHYL ALCOHOL, DENATURED, 70% SOLN
Chemical Synonyms	Ethanol 70%, Aqueous Solution
Formula	Mixture.
Unit Size	up to 20 Lt.
C.A.S. No.	Mixture.

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CHEMTREC
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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)	70%	TWA: 1000 ppm; 1880 mg/m ³
Water: (CAS No. 7732-18-5)	30%	None established

WARNING! FLAMMABLE! HARMFUL IF SWALLOWED OR INHALED	CAUSES IRRITATION.
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SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F) *	Specific Gravity (H ₂ O = 1)	0.8676 @ 20/20°C
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)	70°F (21°C) TCC.	Flammable Limits in Air % by Volume	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
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Extinguisher Media	Water spray, carbon dioxide (CO ₂); dry chemical (ABC); alcohol-type, or universal-type foams.
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SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Use flooding amounts of water in early stages of fire.

Denaturants:
Methyl Alcohol: (CAS No. 67-56-1)
Methyl Isobutyl Ketone: (CAS No. 108-10-1)
Isopropyl Alcohol: (CAS No. 67-63-0)

* 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, (solution), 3, NA 1987, PG II

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