



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. EE 84
Effective Date February 23, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ETHYL ALCOHOL, DENATURED, REAGENT
Chemical Synonyms	Ethyl Alcohol SDA 3C, 200 proof
Formula	Mixture
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture

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

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

HMIS *
3 4 2

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol: (CAS No. 64-17-5)	95.2%	1000 ppm
Isopropyl Alcohol: (CAS No. 67-63-0)	4.8%	400 ppm

DANGER! FLAMMABLE! VAPOR HARMFUL.

CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SECTION III PHYSICAL DATA

Melting Point (°F)	<-59°C (<-75°F)	Specific Gravity (H ₂ O = 1)	0.791 @ 20/20°C
Boiling Point (°F)	78.9°C (174°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	46 @ 20 °C	Evaporation Rate (Butyl Acetate =1)	3.4
Vapor Density (Air=1)	1.6		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless, liquid; mild fragrant odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	13°C (56°F) TCC ASTM D 56 21°C (70°F) TOC ASTM D 1310	Flammable Limits in Air % by Volume as Ethanol	Lower 3.3	Upper 19.0
Extinguisher Media	Use Carbon dioxide or dry chemical for small fire. Use alcohol-type foam or all-purpose-type foam for large fires.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water spray to disperse vapors and to keep fire exposed containers cool. Re-ignition is possible.

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

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 source. Vapors may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating hazard. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

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

EE 84

Threshold Limited Value	Ethyl alcohol: TWA: 1000 ppm; 1880 mg/m ³ Isopropyl alcohol: TWA: 400 ppm, 983 mg/m ³ STEL: 500 ppm: 1230 mg/m ³ . (ACGIH 1992-93)
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Effects of Overexposure

TARGET ORGANS AFFECTED: Eyes, central nervous system, liver, kidneys.
INGESTION: May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, lack of coordination, progressive liver injury and coma.
INHALATION: May cause headache, nausea, vomiting, dizziness, faintness, drowsiness and irritation of the respiratory tract. **EYES:** Liquid or vapor may cause irritation. **SKIN:** May cause irritation, defatting and drying of skin on prolonged contact.

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:** Wash with soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
	Stable	X	Sparks, flame and ignition sources.

Incompatibility (Materials to Avoid)	Strong oxidizing agents and inorganic acids.
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Hazardous Decomposition Products	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	Wearing proper safety equipment and with adequate ventilation, remove all sources of ignition. Absorb with an inert dry material and place in suitable container for proper disposal. Wash spill area with plenty of 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 an approved incinerator or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Do not use in confined area. If required, work in fume hood with NIOSH/MSHA approved respiratory equipment.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.
Protective Gloves	Neoprene or PVC coated.		Eye Protection	Chemical safety goggles.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood, fire extinguisher.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area, away from heat, sparks and ignition sources. Wash thoroughly after handling. Do not take internally.
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.
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Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. 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	2/23/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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