

MATERIAL SAFETY DATA SHEET

AL-DON CHEMICALS, INC.

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OSHA 29 CFR 1910.1200 (b) (2) (ii)
MSDS No. EE 70
Effective Date April 1, 1990

SECTION I NAME

ETHYL ALCOHOL - DENATURED

Product: Ethanol, Proprietary Solvent
Formula: CH₃CH₂OH (Mixture - See Section III)
Units Size: 8 oz., 500 ml, 1 Ltr., 4 Ltr., 20 Ltr.
C.A.S. No.: None assigned - Mixture

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)

Ethyl Alcohol (FLAMMABLE) CAS # 64-17-5
Methanol (FLAMMABLE; TOXIC) CAS # 67-58-1
Ethyl Acetate (FLAMMABLE; TOXIC BY INHALATION) CAS# 141-78-6

SECTION III PHYSICAL DATA

Melting Point (°F) Freezing Point -80°C
Boiling Point (°F) 163-174°F (74.5 to 79.5°C)
Vapor Pressure (mm Hg) Ca. 42 @ 68°C
Vapor Density (air=1) Ca. 1.6
Solubility in Water: Complete
Appearance and Odor: Clear, colorless, mobile liquid; mild characteristic odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 47°F (8.3°C) IDC
Extinguisher: Water spray, carbon dioxide (CO₂); dry chemical (ABC); alcohol-type, or universal-type foams.

SPECIAL FIREFIGHTING PROCEDURES

This Material Safety Data Sheet is applicable for Ethyl Alcohol, Anhydrous (200 proof) and Ethyl Alcohol 95% (190 proof) containing 5% water.
** SYDWINNS Can't-Government Formula #1, 200 proof, Meos019.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Boilers 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 of storage from handling during 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. FLAMMABLE LIQUID, UN1993

Approved by U.S. Department of Labor, essentially similar to OSHA 29

24 HOUR EMERGENCY ASSISTANCE

CHEMTRAC 800-424-9300 By 716-226-6177 Fax 716-344-4222	Health 1	Fire 3	Reactivity 0
	HAZARD RATING	HAZARD RATING	HAZARD RATING
LEAST	SUBST	MODERATE	HIGH
0	1	2	3
			4

SECTION V HEALTH HAZARD DATA

Threshold Limited Value: Ethyl Alcohol (100ppm; 1000 mg/m³ (air); Methanol (100ppm; 260 mg/m³; Ethyl Acetate (100ppm; 340 mg/m³ (air)).

Effects of Overexposure: Irritation; Causes dizziness, drowsiness, decreased reflexes, incoordination, nausea, vomiting, staggering gait, and com. SILEM APPROXIMATION: An overdose of severe effects from available information. EMULSIONS: May cause dizziness, drowsiness, nausea and vomiting. SILEM CONTACT: Irritation of skin. EYE CONTACT: Causes severe irritation.

Emergency and First Aid Procedures: INHALATION: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, give two glasses of water to drink. Remove clothing. Repeat until patient feels better. Call physician immediately. SKIN: Flush with water. IMMEDIATE: Remove so from skin. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention. EYES: Immediately flush eyes with plenty of water for at least 15 minutes. See medical attention.

SECTION VI REACTIVITY DATA

Stability: Unstable
Stable: Stable
Incompatibility (Materials to avoid): Concentrated sulfuric or sulfuric acid; strong oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.
Hazardous Polymerization: May Occur
Conditions to Avoid: Heat, fire, ignition source.

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: Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection: or normal laboratory use. If from temperatures above 100°F, use adequate hood.
Ventilation: Local Exhaust System (Recommended)
Protective Gloves: Rubber
Eye Protection: Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and 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 or container before using with care; after handling.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Rev. No. 2 Date 4/1/90 Approved Alexander A. Piccirilli
Chemical Safety Coordinator

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