



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. UU 10
Effective Date June 1, 1999

SECTION V HEALTH HAZARD DATA

UU 10

Threshold Limited Value

Methanol: STEL: 250 ppm; 328 mg/m³.
Methyl Isobutyl Ketone: STEL: 75 ppm; 307 mg/m³.

Effects of Overexposure

TARGET ORGANS AFFECTED: Central nervous system, liver, kidneys.
INGESTION: Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **SKIN ABSORPTION:** No evidence of adverse effects from available information. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting. **SKIN:** Dehydration of skin. **EYES:** 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 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; strong oxidizing agents.
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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. Absorb with an inert dry material. Sweep up and place in a suitable 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. Dispose of in an approved incinerator or contract with a licensed waste disposal service.
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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.			
Ventilation	Local Exhaust	Recommended.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves		Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.				

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. Keep container tightly closed when not in use.
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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.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	6/1/99	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	UNIVERSAL pH INDICATOR
Chemical Synonyms	Indicator, pH, Universal
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

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0

0

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

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

Health 1
Fire 3
Reactivity 0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol, Denatured: (CAS No. 64-17-5) Water: (CAS No. 7732-18-5)	69.5% 24.0%	TWA: 1000 ppm; 1880 mg/m ³ None established.
Methyl Alcohol: (CAS No. 67-56-1) Methyl Isobutyl Ketone: (CAS No. 108-10-1)	2.77% 1.42%	TWA: 200 ppm; 262 mg/m ³ TWA: 50 ppm; 205 mg/m ³
Ethyl Acetate: (CAS No. 141-78-6) Rubber Hydrocarbon Solvent: (CAS No. 64742-89-8)	0.75% 0.6%	TWA: 400 ppm; 1440 mg/m ³ None established.

WARNING! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED. AVOID PROLONGED BREATHING OF VAPOR.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezing pt. -56°C (-70°F)	Specific Gravity (H ₂ O = 1)	0.84134 at 25°C
Boiling Point (°F)	79°C (175°F)	Percent Volatile by Volume (%)	98%
Vapor Pressure (mm Hg)	29 mm Ethyl Alcohol at 20°C	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	2.1 (Isopropyl Alcohol)		
Solubility in Water	Complete.		
Appearance & Odor	Green, water like liquid; sweet, hydrocarbon odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	70°F (21°C) TCC.	Flammable Limits in Air % by Volume Alcohol	Lower	Upper
			4.3%	19.0%
Extinguisher Media	Water spray, carbon dioxide; dry chemical; alcohol-type, or universal-type foams.			

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.

(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 point. **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, (SOLUTION) 3, NA 1987, PG II

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