



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 320  
Effective Date February 8, 1999

## SECTION V HEALTH HAZARD DATA

CC 320

**Threshold Limited Value** Acetone: STEL = 1000 ppm, 2380 mg/m<sup>3</sup>. Ethyl Alcohol: TWA = 1000 ppm, 1880 mg/m<sup>3</sup>. (ACGIH 1992-93) Toxicity Data RTECS Ref. # Acetone - AL315000, Ethyl Alcohol - KQ6300000.

**Effects of Overexposure** **INGESTION:** Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting and central nervous depression. **SKIN CONTACT:** Irritation, dermatitis, dehydration of skin. **EYE CONTACT:** Causes severe irritation. Exercise appropriate procedures to minimize potential hazards.

**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 with 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:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature, heat, sparks, flame and other ignition sources.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Concentrated Nitric or Sulfuric Acid; strong oxidizing agents.

**Hazardous Decomposition Products** Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		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. 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 agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	Adequate to maintain below exposure limit.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves, ventilation hood.

## 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.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid contact with skin and eyes. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 7	<b>Date</b> 2/8/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	CHROMATOGRAPHIC SOLVENT	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>4</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	3	Fire	4	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	4																	
Reactivity	2																	
<b>Chemical Synonyms</b>	Acetone/Ethyl Alcohol (1:1)																	
<b>Formula</b>	Mixture.																	
<b>Unit Size</b>	up to 4 Lt.																	
<b>C.A.S. No.</b>	Mixture.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetone: (CAS No. 67-64-1)	50%	TWA: 750 ppm; 1780 mg/m <sup>3</sup>
Ethyl Alcohol (Denatured) *: (CAS No. 64-17-5)	50%	TWA: 1000 ppm; 1880 mg/m <sup>3</sup>
<b>DANGER! EXTREMELY FLAMMABLE! HARMFUL OR</b>		

**FATAL IF SWALLOWED OR INHALED. VAPOR HARMFUL. CAUSES EYE IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Approx. -94°C (-137°F) Acetone	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.792 @ 20°C
<b>Boiling Point (°F)</b>	Approx. 56.5°C (133°F) Acetone	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	Acetone: 181.7 @ 20°C EtOH: 42 @ 68°F	<b>Evaporation Rate (n-Butyl Ac. =1)</b>	>7.0
<b>Vapor Density (Air=1)</b>	Acetone: 2.00, EtOH: 1.6		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless liquid; fragrant mint-like odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	-18°C (0°F) TCC (Acetone)	<b>Flammable Limits in Air % by Volume</b>	Acetone	Lower	Upper
				2.6%	12.8%

**Extinguisher Media** Water spray; carbon dioxide (CO<sub>2</sub>); dry chemical (ABC); alcohol-type, or universal-type foam.

**SPECIAL FIREFIGHTING PROCEDURES** Water should be used to keep exposed containers cool. Water spray may be used to flush spills away from exposure and to dilute spills to non-flammable mixtures. In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

Autoignition Temperature: Acetone 465°C (869°F); Ethyl Alcohol 363°C (685°F).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

**UNUSUAL FIRE AND EXPLOSION HAZARDS** This mixture is extremely flammable and its vapors form explosive mixtures with air. Dangerous when exposed to heat, sparks, flame or oxidizing agents.

\*Denaturants:

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

**D.O.T. Flammable liquids, n.o.s., (Acetone/ethyl alcohol), 3, UN 1993, PG II**

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