



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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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/m³. Ethyl Alcohol: TWA = 1000 ppm, 1880 mg/m³. (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

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

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. 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.
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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 agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty condition s prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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.
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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. Avoid prolonged or repeated breathing of vapors. Avoid contact with skin and eyes. 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. 7	Date	2/8/99	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	CHROMATOGRAPHIC SOLVENT
Chemical Synonyms	Acetone/Ethyl Alcohol (1:1)
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

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

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

Health 3
Fire 4
Reactivity 2
HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

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

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

SECTION III PHYSICAL DATA

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

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-18°C (0°F) TCC (Acetone)	Flammable Limits in Air % by Volume	Acetone	Lower	Upper
				2.6%	12.8%
Extinguisher Media	Water spray; carbon dioxide (CO ₂); 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