



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. LL 5
Effective Date March 19, 1999

SECTION V HEALTH HAZARD DATA

LL 5

Threshold Limited Value

None established. (ACGIH 1992-93).
RTECS No. OD2800000 Toxicity studies: Oral-rat LD₅₀: 3730 mg/kg.

Effects of Overexposure

INGESTION: Although animal data indicates a toxicity rating as moderately toxic, clinical experience has shown that even diluted preparations have a corrosive action in the human esophagus and stomach. **EYES:** Contact may cause burns. **SKIN:** Contact may cause burns. **INHALATION:** Inhalation of mist causes coughing and irritation of mucous membranes.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water for at least 15 minutes. If burns develop, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get prompt medical attention. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Excessive temperature or heat.

Incompatibility (Materials to Avoid)	Strong oxidizing agents, iodides, Nitric acid, albumin, Hydrofluoric acid.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.
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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	Neutralize with Sodium Carbonate. Absorb spill in vermiculite, paper, earth or other absorbent. Place in suitable container for proper 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.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	When high concentrations or mist are present, use NIOSH/MSHA-approved self-contained breathing apparatus or work in ventilation hood.
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Ventilation	Local Exhaust	Not needed.	Special	No.
	Mechanical (General)	Not needed.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizing materials and fire hazards. Wash thoroughly after handling.
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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Remove contaminated clothing and shoes.
Wash clothing before reuse.

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

Revision	No. 5	Date	3/19/99	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	LACTIC ACID
Chemical Synonyms	2-Hydroxypropanoic Acid, Milk Acid
Formula	CH ₃ CHOHCOOH
Unit Size	up to 3.785 Lt.
C.A.S. No.	50-21-5

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

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

Health	1
Fire	1
Reactivity	1

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lactic Acid	85-90%	None established.

WARNING! HARMFUL IF SWALLOWED.

MAY CAUSE SKIN AND EYE BURNS.

SECTION III PHYSICAL DATA

Melting Point (°F)	16.8°C (60.8°F)	Specific Gravity (H ₂ O = 1)	1.249 at 15°C
Boiling Point (°F)	122°C (251°F) at 15 mm	Percent Volatile by Volume (%)	Not determined.
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate (n-Butyl Ac. = 1)	Greater than 1.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Completely miscible with water.		
Appearance & Odor	Clear, colorless to yellow, syrupy liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
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Extinguisher Media	Dry chemical, carbon dioxide (CO ₂), water spray or foam.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Emits acrid fumes when heated. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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