



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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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 LD<sub>50</sub>: 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

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature or heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizing agents, iodides, Nitric acid, albumin, Hydrofluoric acid.

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

<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** 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.

**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.

<b>Ventilation</b>	<b>Local Exhaust</b>	Not needed.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not needed.	<b>Other</b>	No.

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

## 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.

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.

<b>Revision</b> No. 5	<b>Date</b> 3/19/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	LACTIC ACID	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> HEALTH FIRE REACTIVITY 1 1 1
<b>Chemical Synonyms</b>	2-Hydroxypropanoic Acid, Milk Acid	
<b>Formula</b>	CH <sub>3</sub> CHOHCOOH	
<b>Unit Size</b>	up to 3.785 Lt.	
<b>C.A.S. No.</b>	50-21-5	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lactic Acid	85-90%	None established.
<b>WARNING! HARMFUL IF SWALLOWED.</b>		
<b>MAY CAUSE SKIN AND EYE BURNS.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	16.8°C (60.8°F)	Specific Gravity (H <sub>2</sub> 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

<b>Flash Point (Method Used)</b>	Non-flammable (NA).	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
		Unknown	-----	-----
<b>Extinguisher Media</b>	Dry chemical, carbon dioxide (CO <sub>2</sub> ), 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