



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 59
Effective Date April 14, 1998

SECTION V HEALTH HAZARD DATA

AA 59

Threshold Limited Value

Orl-rat LD50: 24 mg/kg. Scu-rat LD50: 5 mg/kg.

Effects of Overexposure

From the literature Clinical Toxicology of Commercial Products, 1969, Gleason. This product has a low toxicity rating when taken internally by oral route that can be fatal if taken by injection. Injection may cause increase in heart rate, irritability, headache, elevated blood pressure, dilated pupils, and death. **EYES:** May cause irritation on contact. **SKIN:** May cause irritation.

Emergency and First Aid Procedures

IF ACCIDENTAL INJECTION SHOULD OCCUR, GET IMMEDIATE MEDICAL ATTENTION. INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush with water, lifting lower and upper eyelids occasionally. If irritation persists, get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If illness develops, get medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizers and alkaline materials.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, (NO _x).
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Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wearing suitable protective clothing, sweep material onto paper. Place in fiber carton and incinerate. Wash spill area well 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.
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Wearing suitable protective clothing, make up small packages in paper or other flammable materials and incinerate. Federal, state and local laws take precedence.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in ventilation hood. If necessary wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	Yes.	Other	No.

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

Precautions to be Taken in Handling & Storing	Keep container tightly closed. Store in a cool place and protect from light, oxidizing and alkaline materials. Refrigerate to prolong potency.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not breathe dust. Avoid contact with skin or eyes. Wash thoroughly after handling. For laboratory use only. Remove and wash contaminated clothing.

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

Revision No. 5	Date 4/14/98	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	L-ADRENALINE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *	Health	3
Chemical Synonyms	Epinephrine		Fire	0
Formula	3,4-(HO) ₂ C ₆ H ₃ CHOHCH ₂ NHCH ₃		Reactivity	0
Unit Size	up to 30 g			
C.A.S. No.	51-43-4			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
L-Adrenaline	100%	None established.
DANGER! POISON CAN BE FATAL IF INHALED, SWALLOWED, ABSORBED THROUGH SKIN, OR BY INJECTION. NOT FOR CLINICAL USE.		

SECTION III PHYSICAL DATA

Melting Point (°F)	211°C (412°F) decomposes.	Specific Gravity (H ₂ O = 1)	Data not listed.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile solid (NA).
Vapor Density (Air=1)	6.3		
Solubility in Water	Slight.		
Appearance & Odor	White to brownish crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Carbon dioxide (CO ₂); dry chemical (ABC); water spray.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight, when exposed to heat or flame; can react with oxidizing materials.

D.O.T. **NON-REGULATED.**

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