



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. LL 250
Effective Date September 24, 1998

SECTION V HEALTH HAZARD DATA

LL 250

Threshold Limited Value

None established by ACGIH 1992-93.

Effects of Overexposure

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. Material is irritating to mucous membranes and respiratory tract. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. Treat symptomatically. If illness or discomfort develop, get medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizing agents, strong acids, strong bases, strong reducing agents.
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Hazardous Decomposition Products	Fire or excessive heat may produce hazardous decomposition products of oxides of nitrogen, carbon monoxide and carbon dioxide.
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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. Avoid raising dust. Place in a suitable container for disposal by incineration. Wash spill area well with soap and water. Reclaim where possible.
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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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory use. If dusty conditions prevail, wear a NIOSH/MSHA approved dust mask or respirator, or work in ventilation hood.			
Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	If dusty.	Other	No.
Protective Gloves	Recommended.		Eye Protection	Chemical safety glasses.

Other Protective Equipment	Lab coat, eye wash station, 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. Wash thoroughly after handling. Do not breathe dust. Use with adequate ventilation.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Remove and wash contaminated clothing before reuse. Keep container tightly closed. Avoid contact with eyes, skin and clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	9/24/98	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	LUMINOL	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4
Chemical Synonyms	5-Amino-2,3-dihydro-1,4-phthalazinedione	
Formula	C ₈ H ₇ N ₃ O ₂	
Unit Size	up to 100 grams	
C.A.S. No.	521-31-3	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Luminol	97%	None established.

CAUTION! MAY BE HARMFUL BY INHALATION, INGESTION

OR SKIN ABSORPTION. MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	319°-320°C (606°-608°F)	Specific Gravity (H ₂ O = 1)	Approx. 0.90 to 1.0
Boiling Point (°F)	Decompose.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	6.1		
Solubility in Water	Insoluble.		
Appearance & Odor	Crystalline solid, pale yellow powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Data not listed.	Flammable Limits in Air % by Volume	Lower	Upper
		Unknown		
Extinguisher Media	Water spray; carbon dioxide; dry chemical powder, alcohol, polymer foam.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of nitrogen (NO_x). Can react with strong oxidizing materials.

D.O.T. NON-REGULATED.

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