



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 113
Effective Date June 18, 1999

SECTION V HEALTH HAZARD DATA

PP113

Threshold Limited Value Ethyl Alcohol TWA: 1000 ppm; 1880 mg/m³ (Air). Methanol TWA: 200 ppm; 262 mg/m³ (Skin); Ethyl Acetate TWA: 400 ppm; 1440 mg/m³ (Air), (ACGIH 1992-93).

Effects of Overexposure

May be harmful if swallowed. May cause irritation to skin and eyes on contact. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If conscious, have victim drink several glasses of water. Call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature to cause evaporation.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide, oxides of nitrogen.

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 For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent.

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)		For normal laboratory use at room temperatures none should be needed with adequate room ventilation.			
Ventilation	Local Exhaust	Recommended.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves		Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.				

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry, well-ventilated area. Do not take internally. 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.

Wash thoroughly after handling.
Remove and wash contaminated clothing.

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

Revision No. 2	Date 6/18/99	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	1, 10-PHENANTHROLINE 1% AQUEOUS	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Health	1
Chemical Synonyms	N/A		Fire	0
Formula	Mixture		Reactivity	0
Unit Size	up to 3.785 Lt.		HMIS *	
C.A.S. No.	Mixture.			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
1, 10-Phenanthroline: (CAS No. 5144-89-8)	1%	None established.
water: (CAS No. 7732-18-5)	99%	None established.

CAUTION! MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes 0°C (32°F)	Specific Gravity (H ₂ O = 1)	approx. 1.0
Boiling Point (°F)	approx. 100°C (212°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	14 water	Evaporation Rate (water = 1)	> 1
Vapor Density (Air=1)	7 water		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless, mobile liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Water spray, carbon dioxide (CO ₂); dry chemical (ABC).			

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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