



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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

MSDS No. CC 454
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CRYSTAL VIOLET AMMONIUM OXALATE SOLUTION
Chemical Synonyms	Crystal Violet Ammonium Oxalate Solution
Formula	Mixture
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

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

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

HMIS*
Health 1
Fire 0
Reactivity 0

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Crystal Violet: (CAS No. 548-62-9)	0.1%	None established.
Ammonium Oxalate: (CAS No. 1113-38-8)	1.0%	None established.
Water: (CAS No. 7732-18-5)	98.9%	None established.

WARNING! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	98.9%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Dark violet liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-Flammable	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water solution hazardous decomposition products may be produced as dust or fume.

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value

None established for this mixture.

Effects of Overexposure

May be harmful by ingestion or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

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

SECTION VI REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid	Protect from light. Excessive temperature and heat to cause evaporation.
	Stable			

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably emits toxic fumes of chlorides and oxides of nitrogen (NO _x).
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Absorb on vermiculite. Scoop up and place in a 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 contact a licensed chemical waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Good ventilation should be sufficient in laboratory use.			
Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Smock, apron, proper gloves, and eye wash station.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Avoid contact with eyes, skin or clothing. Store in a cool, dry place. Wash thoroughly after handling.
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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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Remove and wash contaminated clothing.

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

Revision No. 3	Date 2/16/99	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.

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

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