




**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. CC 450
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CRYSTAL VIOLET			<div><div><p>CHEMTREC 800-424-9300 Day 716-226-6177</p><p>NFPA HAZARD RATING</p><table><tr><td>LEAST</td><td>SLIGHT</td><td>MODERATE</td><td>HIGH</td><td>EXTREME</td></tr><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr></table><p>HMIS*</p><table><tr><td>Health</td><td>2</td></tr><tr><td>Fire</td><td>1</td></tr><tr><td>Reactivity</td><td>1</td></tr></table></div></div>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	1	Reactivity	1
LEAST	SLIGHT	MODERATE	HIGH		EXTREME															
0	1	2	3		4															
Health	2																			
Fire	1																			
Reactivity	1																			
Chemical Synonyms	Gentian Violet; Basic Violet 3																			
Formula	C ₂₅ H ₃₀ ClN ₃	C.I. No. 42555																		
Unit Size	up to 500 grams																			
C.A.S. No.	548-62-9																			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Crystal Violet: Biological Stain and/or pH Indicator	> 96%	None established.
CAUTION! MAY BE HARMFUL IF SWALLOWED, INHALED, OR		
ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 215°C (419°F)	Specific Gravity ($H_2O = 1$)	Not listed.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Soluble.		
Appearance & Odor	Green crystalline powder; musty odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	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 and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of chloride and oxides of nitrogen (NO_x). Can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

CC 450

Threshold Limited Value

Nuisance particulates 10 mg/m³ total dust (ACGIH).

Effects of Overexposure

May be harmful by inhalation, 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. If irritation develops or persists, get medical attention. **SKIN:** Flush with soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from light.
	Stable	X	Excessive temperature and heat.
Incompatibility (Materials to Avoid)	Strong oxidizers.		
Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably emits toxic fumes of oxides of nitrogen and oxides of carbon.		
Hazardous Polymerization	Conditions to Avoid		
May Occur	Will Not Occur	Not applicable.	
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up and place in a suitable container for disposal. Flush area with a solution of household bleach, 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 chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, smock, apron, proper gloves, eye wash station, and a ventilation hood.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Avoid contact with eyes, skin and clothing. Store in a cool, dry place. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

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	2/16/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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