



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 458
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CRYSTAL VIOLET SOLUTION, HUCKER'S	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <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 border="1"> <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>	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	Crystal Violet Hucker's Stain																	
Formula	Mixture.																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	Mixture.																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Contains: Crystal Violet Stain: (CAS No. 548-62-9)	2.4	None established.
Ethyl Alcohol (Denatured): (CAS No. 64-17-5)	22.9	1000 ppm (Air).
Ammonium Oxalate: (CAS No. 1113-38-8)	0.97	None established.

CAUTION! COMBUSTIBLE! HARMFUL IF SWALLOWED. CONTACT MAY CAUSE IRRITATION TO SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. -15°C (4°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 86°C (187°F)	Percent Volatile by Volume (%)	75%
Vapor Pressure (mm Hg)	14 mm at 20°C	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	0.96168		
Solubility in Water	Completely.		
Appearance & Odor	Dark violet, mobile liquid; slight petroleum odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Approx. 32°C (90°F) (TCC)	Flammable Limits in Air % by Volume	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical (ABC); alcohol-type, or universal-type foams.			

SPECIAL FIREFIGHTING PROCEDURES

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

CONTAINS CONT'D:
* Water: (CAS No. 7732-18-5).....72.4%

UNUSUAL FIRE AND EXPLOSION HAZARDS

There are no unusual fire and explosion hazard associated with this solution. In fire conditions resulting in the evaporation of the water of solution hazardous decomposition products may be produced as dust or fume.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value None established for this mixture.

Effects of Overexposure
INGESTION: Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting. **SKIN CONTACT:** Causes staining of skin. May cause irritation. **EYE CONTACT:** Contact causes irritation. To the best of our knowledge, the chemical, physical and toxicological properties of this solution has not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INGESTION: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, give two glasses of water to drink. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. Never give anything by mouth to an unconscious or convulsing person. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION AS MIST:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Strong oxidizers and reducing agents.

Hazardous Decomposition Products Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide, chlorine, ammonia and/or oxides of nitrogen (NO_x).

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
 Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent. Burn in an approved incinerator.

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. If misty conditions prevail, work in ventilation hood.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Not required.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Smock, apron, eye wash station, fire extinguisher, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
 Store in a cool area, away from fire hazards.
 Wash thoroughly after handling.
 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.

Remove and wash contaminated clothing.
 Should ignition occur, flames may not be visible in daylight.

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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