



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 460
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CRYSTAL VIOLET, 1% ALCOHOL SOLUTION	
Chemical Synonyms	Gentian Violet, 1% Alcohol Solution	
Formula	Mixture.	
Unit Size	up to 4 Lt.	
C.A.S. No.	Mixture.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Crystal Violet: (CAS No. 548-62-9)	1%	See Section V.
Ethyl Alcohol (Denatured)*: (CAS No. 64-17-5)	99%	See Section V.

DANGER! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED. AVOID PROLONGED OR

REPEATED BREATHING OF VAPOR. OVER EXPOSURE TO VAPOR MAY BE HARMFUL.

SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F)*	Specific Gravity (H ₂ O = 1)	Approx. 0.81
Boiling Point (°F)	75-80°C (163-174°F)*	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	Ca 42 @ 68°F*	Evaporation Rate (n-Butyl Ac. = 1)	4.1
Vapor Density (Air=1)	Ca 1.59*		
Solubility in Water	Complete.		
Appearance & Odor	Dark violet liquid, mild; non-residual odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	47°F (8.3°C) TCC	Flammable Limits in Air % by Volume	Lower	Upper
		Approx.	3.3 (ETOH)	19.0 (ETOH)
Extinguisher Media	Carbon dioxide, dry chemical, foam, water spray, or fog.			

SPECIAL FIREFIGHTING PROCEDURES

Rubber hydrocarbon solvent: (CAS No. 64742-89-8)
* Methanol: (CAS No. 67-56-1)
Ethyl Acetate: (CAS No. 141-78-6)
Water: (CAS No. 7732-18-5)
Methyl Isobutyl Ketone: (CAS No. 108-10-1)

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

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

*For Pure Ethyl Alcohol

D.O.T. DENATURED ALCOHOL, (SOLUTION), 3, NA 1987, PG II

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

Ethyl alcohol: TWA: 1,000 ppm; 1,880 mg/m³. TLV (skin) Methanol: 200 ppm, 262 mg/m³; Ethyl acetate: 400 ppm, 1440 mg/m³ (ACGIH 1992-93)

Effects of Overexposure

INGESTION: Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **SKIN ABSORPTION:** No evidence of adverse effects from available information. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting. **SKIN CONTACT:** Dehydration of skin. **EYE CONTACT:** May cause blindness.

Emergency and First Aid Procedures

INGESTION: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Wash with soap and water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat, fire, ignition source.
	Stable	X		

Incompatibility (Materials to Avoid)	Concentrated nitric or sulfuric acid; strong oxidizing agents.
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Hazardous Decomposition Products	Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.
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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

Remove all sources of ignition, provide adequate ventilation. Absorb with an inert dry material, sweep up and place in an appropriate container for disposal. Wash spill area with 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 needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved respirator. Do not use in confined area.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety goggles.
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Other Protective Equipment Proper gloves, smock, apron, eye wash station, fire extinguisher and a ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry, well ventilated 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.

Use with adequate ventilation. Do not take internally. 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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