



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 20
Effective Date January 12, 1999

SECTION V HEALTH HAZARD DATA

AA 20

Threshold Limited Value For glacial acetic acid: TWA: 10 ppm or 25 mg/m³; STEL: 15 ppm or 37 mg/m³ Toxicity data: oral-rat LD50 3310 mg/kg. (ACGIH 1992-93).

Effects of Overexposure Vapor causes irritation of eyes, nose and throat. Liquid causes severe burns to eyes and skin. Swallowing results in severe damage to mucous membranes and deep tissues.

Emergency and First Aid Procedures **SKIN:** Flush thoroughly with water, follow with dilute solution of sodium bicarbonate. If irritation persists, get medical attention. **EYES:** Flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen by trained personnel. Get medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Get prompt medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Strong oxidants, hydroxides, oxides, xylenes, bases.

Hazardous Decomposition Products Dangerous; when heated to decomposition, emits toxic fumes.

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 To neutralize, cover contaminated surfaces with soda ash or sodium bicarbonate. Absorb spill with an inert dry material, sweep up and place in a suitable container for proper disposal.

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 accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling at room temperatures. If necessary work in fume hood or wear a NIOSH/MSHA-approved respirator.

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

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

Other Protective Equipment Goggles, smock, apron, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, well-ventilated area. 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.

Avoid contact with eyes or skin. Avoid breathing vapor. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 9	Date 1/12/99	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	ACETO-CARMINE, 2% SOLUTION	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 2 Fire 1 Reactivity 2
Chemical Synonyms	Aceto-Carmine Biological Staining Solution	
Formula	Mixture.	
Unit Size	up to 4 Lt.	
C.A.S. No.	Mixture.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetic Acid, Glacial: (CAS No. 64-19-7)	45%	See Section V.
Carmine: (CAS No. 1390-65-4)	2%	None established.
Water: (CAS No. 7732-18-5)	53%	None established.

DANGER! CORROSIVE! MAY BE FATAL IF SWALLOWED. CAUSES SEVERE BURNS. VAPOR HARMFUL.

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 0°C (32°F)	Specific Gravity (H₂O = 1)	Approx. 1.025
Boiling Point (°F)	Approx. 108°C (226°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	Approx. 11.1 mm @ 68°C	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	2.07 (For Glacial Acetic Acid).		
Solubility in Water	Complete.		
Appearance & Odor	Carmine colored liquid with a pungent, vinegar-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide; dry chemical; water spray.				

SPECIAL FIREFIGHTING PROCEDURES Acetic acid concentrations below 50% are non-flammable; however acetic acid solutions can react with metals to liberate hydrogen gas. Self-contained breathing apparatus should be used to protect against suffocating and corrosive vapors when this material is involved in a fire situation. When involved in a fire situation the use of water spray; dry chemical (ABC); CO₂, Alcohol foam fire extinguishers are compatible. Wear protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May be a moderate fire hazard when exposed to heat or flame; may react vigorously with strong oxidizing materials.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 153)

D.O.T. **ACETIC ACID SOLUTION, 8, UN 2790, PG II**

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