



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. AA 30
Effective Date September 14, 1998

SECTION V HEALTH HAZARD DATA

AA 30

Threshold Limited Value For Glacial Acetic Acid; TWA: 10 ppm or 25 m/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 burns to eyes and skin. Swallowing results in severe damage to mucous membranes and deep tissue.

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 dilute solution of sodium bicarbonate. If irritation persists, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. Drink large quantities of water. 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.

Hazardous Decomposition Products We have no data, but expect CO and CO₂ at least.

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
Using proper safety equipment, and good ventilation carefully cover contaminated surfaces with soda ash or sodium bicarbonate to neutralize acid solution. Absorb 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 with normal laboratory handling at room temperature. If fumes or mist occur, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

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

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep away from heat and open flame. Store in a cool, well-ventilated area. Avoid contact with eyes or skin. 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 breathing vapor.
Remove and wash contaminated clothing.

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

Revision No. 8	Date 9/14/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employees 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-ORCEIN BIOLOGICAL STAIN	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 2 1 2
Chemical Synonyms	Aceto-Orcein Biological Stain	
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%	10 ppm. Mouse (oral) - LD ₅₀ 5 g/kg.
Orcein Stain: (CAS No. 1400-62-0)	2%	Not established.
Water: (CAS No. 7732-18-5)	53%	

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 at 25°C
Boiling Point (°F)	108°C (226°F)	Percent Volatile by Volume (%)	98%
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	Violet 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
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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 materials is involved in a fire situation. When involved in a fire situation the use of water spray; dry chemical; CO₂, alcohol foam, ABC fire extinguishers are compatible. Wear protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May be moderate fire hazard when exposed to heat or flame; may react vigorously with bases and 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