



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. EE 10
Effective Date April 7, 1998

SECTION V HEALTH HAZARD DATA

EE 10

Threshold Limited Value

Formalin: OSHA (PEL) 1 ppm; (STEL) 2 ppm (15 min.). Phenol: OSHA/ACGIH 5 ppm (skin). Ethylene Glycol: CL 50 ppm (vapor and mist). ODOR THRESHOLD: Olfactory accommodation: likely to occur. Sensory limits (formaldehyde) below PEL.

Effects of Overexposure

ACUTE EXPOSURE: Embalming fluid concentrate is a poison by ingestion (contains 27% phenol); phenol also can be absorbed through the skin. Acute ingestion exposure affects the CNS; may cause vomiting. Chronic skin exposure may lead to phenol absorption, with headache, dizziness or tingly feeling being observed (especially following repeated exposures where hypersensitivity may be obtained). **AVOID ANY SKIN CONTACT. CORROSIVE LIQUID.** Off-gassing vapors (formaldehyde) may cause transient irritation (watering) to eyes and irritation to mucous membranes. Sensory threshold below (formaldehyde).

Emergency and First Aid Procedures

SKIN: This material is highly corrosive to skin. Remove any contaminated clothing and shoes. Flush skin with water for at least 15 minutes. If irritation persists or burns develop, get immediate medical attention. **EYES: CORROSIVE** to eyes. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION: CORROSIVE POISON.** If swallowed, **DO NOT INDUCE VOMITING.** If conscious, flush mouth with copious amounts of water for at least 15 minutes. **VICTIM SHOULD NOT SWALLOW ANY FLUSH MATERIAL.** Contact physician immediately. If conscious, give 8-10 oz. (240-300 mL) water or milk to dilute materials in stomach. Repeat. If vomiting occurs, have victim lean forward to minimize aspiration. Contact physician immediately. **INHALATION:** Sensory threshold below permissible level. Remove to fresh air; monitor for toxic effect. Contact physician immediately should irritant or toxic effect be noticed.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
	Stable		

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	Upon thermal decomposition; carbon dioxide, carbon monoxide, water vapor.
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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	Small spill: Flush area with copious amounts of water to sanitary sewer. Large spill: Remove all ignition sources. Use a NIOSH/MSHA approved respirator. Use absorbent material to dyke and/or contain spill; dilute with copious amounts of water (20:1). Report discharge of this material to local Emergency personnel (through 911); alert local Pure Waters authority in event of discharge of this material to sanitary sewer.
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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.
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Do NOT discharge directly to sanitary sewer, must first be diluted to at least working concentration [dilute 1:9 (water)].

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Local exhaust ventilation required. Wear a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses and face shield.
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Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, goggles, face shield, safety boots, shower, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry area away from oxidizing materials. Have good local or mechanical ventilation or wear a NIOSH/MSHA-approved respirator when mixing this material with water to achieve working solution.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Eye wash station in close proximity during use. Avoid contact with eyes, skin, mucous membranes and clothing. Use with adequate ventilation. Remove and wash contaminated clothing. Discard contaminated shoes.

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

Revision	No. 3	Date	4/7/98	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	EMBALMING FLUID
Chemical Synonyms	Embalming Fixative (Concentrate)
Formula	Mixture
Unit Size	up to 200 Kg.
C.A.S. No.	Mixture. See Section II.

CHEMTREC
800-424-9300
Day 716-226-6177

Health	3
Fire	2
Reactivity	1

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Formalin: (CAS No. 50-00-0) *	17.5%	OSHA (PEL) 1 ppm; (STEL) 2 ppm (15 min.)
Phenol: (CAS No. 108-95-2)	27.5%	OSHA/ACGIH 5 ppm skin.
Ethylene Glycol: (CAS No. 107-21-1)	55.0%	ACGIH CL 50 ppm (vapor)

DANGER! POISON. CORROSIVE! MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES SEVERE BURNS. COMBUSTIBLE.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes below 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.10 @ 20°C
Boiling Point (°F)	>100°C (210°F)	Percent Volatile by Volume (%)	Approx. 18% v/v (Formaldehyde)
Vapor Pressure (mm Hg)	>1.0 (Formaldehyde = 16)	Evaporation Rate (n-Butyl Acetate = 1)	<1.0
Vapor Density (Air=1)	1.067		
Solubility in Water	Complete.		
Appearance & Odor	Clear, mobile fluid; phenolic (medicinal odor).		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	>77.7°C (172.4°F)	Flammable Limits in Air % by Volume	Formaldehyde	Lower	Upper
				1.5%	73%

Extinguisher Media	Water; carbon dioxide (CO ₂); dry chemical (ABC) as appropriate.
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SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

Autoignition Temperature (Ethylene Glycol): >412°C (775°F)

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustible material. Moderate fire hazard when exposed to heat or flame. In fire conditions, may produce strong corrosive materials such as phenol, formic acid and highly irritating fumes of formaldehyde. May react violently with strong oxidizing materials.

D.O.T. PHENOL SOLUTIONS, 6.1, UN 2821, PG II

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