



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. EE 130
Effective Date February 23, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	EVERGREEN PLANT PRESERVING FLUID	 <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 * Health 3 Fire 3 Reactivity 1</p>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
Chemical Synonyms	Botanical preservative											
Formula	Mixture.											
Unit Size	up to 20 Lt.											
C.A.S. No.	Mixture.											

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol, denatured: (CAS No. 64-17-5)	42.85%	1000 ppm; 1880 mg/m ³
Formaldehyde: (CAS No. 50-00-0)	3.7%	C 0.3 ppm; C 0.37 mg/m ³
Glacial Acetic Acid: (CAS No. 64-19-7)	5%	1 ppm; 25 mg/m ³
Copper Sulfate: (CAS No. 7758-98-7)	0.20%	None established.
Water: (CAS No. 7732-18-5)	43.7%	None established.
Denaturants: See below*	4.55%	None established.

DANGER! FLAMMABLE! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Data not listed.	Specific Gravity (H ₂ O = 1)	Approx. 0.85-0.9
Boiling Point (°F)	Approx. 75-100°C (167-212°F)	Percent Volatile by Volume (%)	99.8%
Vapor Pressure (mm Hg)	Ca 44 @ 68°C Ethyl Alcohol.	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	Ca 1.6 for Ethyl Alcohol.		
Solubility in Water	Complete.		
Appearance & Odor	Clear, light blue solution; formaldehyde and vinegar like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	68°F (20°C) TCC.	Flammable Limits in Air % by Volume	Ethyl Alc.	Lower	Upper
				3.3%	19.0%
Extinguisher Media	Water spray; carbon dioxide; dry chemical; foam.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

* Denaturants:

Methanol: (CAS No. 67-56-1)
Ethyl Acetate: (CAS No. 141-78-6)
Methyl Isobutyl Ketone: (CAS No. 108-10-1)
Rubber Hydrocarbon Solvent: (CAS No. 64742-89-8)

Ignition Temperature: 685°F (363°C).

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors form from this product and 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. When involved in fire, formaldehyde emits highly toxic and irritating fumes.

CAUTION! Burns with a clear, almost invisible flame, especially hard to see in strong sunlight.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

D.O.T. **Flammable liquids, n.o.s., (Ethyl alcohol), 3, UN 1993, PG II**

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

SECTION V HEALTH HAZARD DATA

EE 130

Threshold Limited Value ACGIH 1992-93. Glacial acetic acid: STEL: 15 ppm; 37 mg/m³.
Copper dusts & mists: 1 mg/m³.

Effects of Overexposure Target organs affected: Central nervous system, liver, kidneys. May be fatal if swallowed. May cause dizziness, drowsiness, nausea, vomiting. May cause eye irritation. Contact with skin may cause allergic irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call physician immediately. Never give anything by mouth to an unconscious person.
SKIN: Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat, fire, ignition source.
	Stable	X		

Incompatibility (Materials to Avoid) Concentrated nitric or sulfuric acid, strong oxidizing agents.

Hazardous Decomposition Products Thermal decomposition or burning can produce carbon dioxide (CO₂) and/or carbon monoxide and 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. Absorb spill with an inert dry material. Place in a suitable 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 waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) In normal laboratory handling work in fume hood. If misty conditions prevail, wear a NIOSH/MSHA-approved respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, eye wash station, proper gloves, goggles, fire extinguisher.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry, well-ventilated area, away from heat, sparks and flames. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not use in confined area. Do not take internally. Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision No. 6	Date 2/23/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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