




ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 157
Effective Date February 22, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	PHENOLPHTHALEIN 1% IN 50% ALCOHOL	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 1 3 1
Chemical Synonyms	Phenolphthalein Solution	
Formula	Mixture.	
Unit Size	up to 20 Lt.	
C.A.S. No.	Mixture.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Phenolphthalein: (CAS No. 77-09-8)	1%	None established.
Water: (CAS No. 7732-18-5)	50%	None established.
Ethyl Alcohol, Denatured * : (CAS No. 64-17-5)	50%	1000 ppm (Air).

WARNING! FLAMMABLE! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. -113°C (-173°F)	Specific Gravity (H ₂ O = 1)	Approx. 0.80 20°/20°
Boiling Point (°F)	75 -80°C (163 - 174°F) *	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Ca 44 @ 68°C *	Evaporation Rate (Butyl Alc. =1)	4.1
Vapor Density (Air=1)	Ca 1.6 *		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white, mobile liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	23.89°C (75°F) TCC	Flammable Limits in Air % by Volume	Lower	Upper
		Ethyl Alc.*	3.3	9.0
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical; alcohol-type, or universal-type foams.			

SPECIAL FIREFIGHTING PROCEDURES

* For Pure Ethyl Alcohol
Denaturants:
Methanol: (CAS No. 67-56-1)
Methyl Isobutyl Ketone: (CAS No. 108-10-1)
Isopropyl alcohol: (CAS No. 67-63-0)

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

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

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	Methanol TWA: (skin) 262 mg/m ³ ; STEL: 328 mg/m ³ . Isopropyl alcohol: TWA: 983 mg/m ³ ; STEL: 1230 mg/m ³ , Methyl Isobutyl Ketone TWA: 205 mg/m ³ ; STEL: 307 mg/m ³ .
Effects of Overexposure	TARGET ORGANS AFFECTED: Eyes, Central nervous system, Liver, Kidneys. 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, give 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. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. 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

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. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb with an inert dry material. Burn in an approved incinerator or open pit away from buildings and people.
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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. Dispose of in an approved incinerator or contract with a licensed waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	For normal laboratory use at room temperatures none should be needed with adequate room ventilation. If required work in fume hood. Do not use in confined area.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.
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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 any fire hazard. Use with adequate ventilation. Do not take internally.
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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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Wash thoroughly after handling.
Remove and wash contaminated clothing.

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

Revision	No. 1	Date	2/22/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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