



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 180
Effective Date April 9, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	PHENOL RED, ALCOHOL/AQUEOUS SOL'N
Chemical Synonyms	Phenol Red, pH Indicator
Formula	Mixture.
Unit Size	up to 1 Lt.
C.A.S. No.	Mixture.

	CHEMTREC 800-424-9300 Day 716-226-6177	Health 1 Fire 3 Reactivity 1
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		HMIS * 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Phenol Red, (Sodium Salt): (CAS No. 34487-61-1)	1%	None established.
Isopropyl Alcohol (IPA): (CAS No. 67-63-0)	49.5%	See Section V.
Water: (CAS No. 7732-18-5)	49.5%	

WARNING! FLAMMABLE! CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

SECTION III PHYSICAL DATA

Melting Point (°F)	-90°C (-130°F) (pure IPA)	Specific Gravity (H ₂ O = 1)	0.786-0.79 (pure IPA)
Boiling Point (°F)	82°C (180°F) (pure IPA)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	33 mm @ 20°C (pure IPA)	Evaporation Rate (n-Butyl acetate =1)	2.3 (pure IPA)
Vapor Density (Air=1)	2.1 (For Pure IPA)		
Solubility in Water	Complete.		
Appearance & Odor	Red to orange color liquid; mild non-residual odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	75°F (23.8°C) (TCC)	Flammable Limits in Air % by Volume	Pure IPA	Lower	Upper
				2%	12%
Extinguisher Media	"Alcohol foam"; carbon dioxide (CO ₂); dry chemical (ABC); water spray.				

SPECIAL FIREFIGHTING PROCEDURES

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

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

UNUSUAL FIRE AND EXPLOSION HAZARDS

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

D.O.T. ISOPROPYL ALCOHOL, (SOLUTION), 3, UN 1219, PG ||

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

SECTION V HEALTH HAZARD DATA PP 180

Threshold Limited Value None assigned for mixture. For Isopropyl Alcohol: TWA: 400 ppm; 980 mg/m³ (AIR): STEL: 500 ppm, 1230 mg/m³ (ACGIH 1992-93) Human, oral LDLo 2371 mg/kg. Rabbit, skin LD50 16 mg/kg. (AIR).

Effects of Overexposure **TARGET ORGANS AFFECTED:** Central nervous system, respiratory tract.
INHALATION: Exposure to high concentrations (>400 ppm) may cause eye, nose, and throat irritation and excessively high concentrations may cause narcosis (drowsiness, sleepiness). **EYES:** Liquid may cause irritation. **SKIN:** Prolonged or repeated skin contact may cause irritation and drying, cracking and defatting of the skin. **INGESTION:** 100 mL. can be fatal. Aspiration hazard.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **SKIN:** Flush with water. **EYES:** Flush thoroughly with soap and water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat, sparks, open flame, excessive temperature.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizing materials can react vigorously with this alcohol.

Hazardous Decomposition Products Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide and oxides of sulfur.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Remove all ignition sources. Provide adequate ventilation. This material is handled and disposed of as a flammable liquid. Absorb small spills on paper; evaporate isopropyl alcohol in an exhaust hood; burn paper after evaporation.

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) None needed in normal laboratory handling. If misty conditions prevail, work in ventilation 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 glasses.

Other Protective Equipment Smock, apron, eye wash station, proper gloves, ventilation hood, fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from strong oxidizing materials and fire hazards. 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.

Keep away from heat, sparks or flame. Avoid contact with skin or eyes.
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. 4	Date 4/9/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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