



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 160
Effective Date April 9, 1999

SECTION V

HEALTH HAZARD DATA

PP 160

Threshold Limited Value

None established for this mixture (ACGIH 1992-93). For Pure Isopropyl Alcohol: TWA: 400 ppm; 980 mg/m³. Human, oral LDLo 2371 mg/kg.

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 breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get emergency medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI

REACTIVITY DATA

Stability

Unstable
Stable

Conditions to Avoid

Excessive temperatures, heat, spark or flame.

Incompatibility (Materials to Avoid)

Strong oxidizing materials can react vigorously with this alcohol. Aluminum, metal, nitroform, oleum.

Hazardous Decomposition Products

Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.

Hazardous Polymerization

Conditions to Avoid

May Occur
Will Not Occur

Not applicable.

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. Prevent flow to sewers and public water ways.

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	Adequate to maintain below exposure limit.

Protective Gloves

Rubber.

Eye Protection

Chemical safety glasses.

Other Protective Equipment

Goggles, lab coat, 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.

Other Precautions

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

Avoid contact with eyes and skin. Avoid prolonged or repeated breathing of vapors. Use with adequate ventilation. Keep away from heat, sparks, and flame. Keep container tightly closed when not in use. 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	4/9/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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
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SECTION I

NAME

24 HOUR EMERGENCY ASSISTANCE

Product	PHENOLPHTHALEIN 1% ISOPROPYL ALCOHOL SOL'N
Chemical Synonyms	Phenolphthalein 1% Isopropyl Alcohol Solution
Formula	Mixture. See Section II.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture. See Section II.

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

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Phenolphthalein: (CAS No. 77-09-8)	1%	None established.
Isopropyl Alcohol: (CAS No. 67-63-0)	70%	See Section V.
Water: (CAS No. 7732-18-5)	29%	None established.

WARNING! FLAMMABLE! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. -50°C (-58°F) (70% IPA)	Specific Gravity (H ₂ O = 1)	Approx. 0.8
Boiling Point (°F)	85°-100°C (185°-212°F) (70% IPA)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	33 mm @ 20°C (Pure IPA)	Evaporation Rate (n-Butyl Acetate=1)	Greater than 1.
Vapor Density (Air=1)	2.1 (Pure IPA)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; sweet pleasant odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	21.7°C (71°F) TCC (for 70%)	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

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective equipment.

Autoignition Temperature: 399°C (750°F) (ASTM-E659-78) pure IPA.
Cool Flame: 360°C (680°F) (ASTM-E659-78) pure IPA.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, or ignition sources at locations distant from material handling point. **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