

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

Product	PHENOLPHTHALEIN 1% ISOPROPYL ALCOHOL SOLN
Chemical Synonyms	Phenolphthalein 1% Isopropyl Alcohol Solution
Formula	Mixture. See Section II.
Unit Size	up to 4 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

LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS*

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	Lower	Upper
		Pure IPA	2.5 @ 26°C	12.1% @ 66°C
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.

(1993 EMERGENCY RESPONSE GUIDEBOOK, DOT F 5800.6, GUIDE PAGE NO. 26)

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.

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; 983 mg/m³. Human, oral LDLo 2371 mg/kg.

Effects of Overexposure

INGESTION AND INHALATION: Of large quantities of the vapor may cause flushing, headache, dizziness, mental depression, nausea, vomiting, narcosis, anesthesia, coma. 130 mL can be fatal. **EYES:** Liquid may cause irritation. **SKIN:** Repeated contact may cause irritation and cracking.

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. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI

REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperatures, heat, spark or flame.
	Stable		
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.
	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. 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.

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.

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.

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

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

Revision No. 5	Date 3/4/96	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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