


MATERIAL SAFETY DATA SHEET

(513) 860-4949

MSDS No.: PP0155
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Phenolphthalein, 1% Solution		
Chemical Synonyms	N/A		
Formula	Mixture. See Section II.		
Unit Size	up to 3.785 Lt.		
C.A.S. No.	Mixture. See Section II.		



NFPA

HAZARD RATING
MINIMAL SLIGHT MODERATE SERIOUS SEVERE
0 1 2 3 4

CHEMTREC
800-424-9300
Day 585-226-6177

Health	1
Fire	1
Reactivity	1

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)	20%	See Section V.
Water: (CAS No. 7732-18-5)	79%	None established.

WARNING! FLAMMABLE! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Below 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 0.95
Boiling Point (°F)	85-100°C (185-212°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	33 mm @ 20°C (Pure IPA)	Evaporation Rate (Water =1)	Greater than 1.
Vapor Density (Air=1)	2.1 (Pure IPA)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; slight odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	30°C (86°F) 20% IPA	Flammable Limits in Air % by Volume	Lower	Upper
		Pure IPA	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. Use flooding amounts of water in early stages of fire.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 127)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Isopropyl alcohol solution at 20% may ignite. May react with strong oxidizing materials. Flame may not be visible.

SECTION V HEALTH HAZARD DATA

PP0155

Threshold Limited Value None established for this mixture (ACGIH 2001). For Pure Isopropyl Alcohol: TWA: 400 ppm; 980 mg/m³. Human, oral LDLo 2371 mg/kg.

Effects of Overexposure Suspect cancer hazard. **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. Risk of cancer depends on level and duration of exposure. Target organs: Central nervous system, liver, kidneys.

Emergency and First Aid Procedures **INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	
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	
	X	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 goggles.

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

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Revision No. 5	Date 01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator JAB
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

D.O.T. Alcohols, n.o.s., (Isopropanol), 3, UN1987, PG III, Ltd Qty ≤ 5 Lt.

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