

View Section : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

(N/A)

Product Name: Isopropyl Alcohol (IPA) 50%, 70%, 91% and 99% IPA
Manufacturer Name: Cumberland-Swan, Inc.
Address: One Swan Drive
 Smyrna, TN 37167
 24hr Emergency: (615) 459-8900 ext. 5270
Business Phone: (615) 459-8900
Revision Date: January 2004
HMIS: See Section 8 for PPE information

HMIS

HEALTH	1
FIRE	3
REACTIVITY	0
PPE	

[To Top of page](#)**SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS**

(N/A)

Ingredient Name	CAS#	Ingredient Percent
Isopropanol, IPA, 2-Propanol, Dimethyl Carbinol EC Index Number: 1	67-63-0	
Deionized Water EC Index Number: 1		

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(N/A)

Emergency Overview: Isopropanol Alcohol is a dangerous fire risk. Prolonged exposure to elevated concentrations of vapors may result in irritation of the eyes, nose, and throat and central nervous system (CNS) depression. Prolonged dermal exposure can result in dry, cracking skin.
Physical State: Volatile liquid
Color: Colorless
Odor: Rubbing alcohol
Applies to All Ingredients :
Route of Exposure: Ingestion, inhalation, dermal contact, eye contact
Potential Health Effects: Acute Effects: Irritation of skin and/or upper respiratory tract as noted above. Acute CNS depression may be manifested as giddiness, headache, dizziness and/or nausea.
Chronic Health Effects: Chronic exposure can result in skin irritation and contact dermatitis. Pre-existing disorders of the skin, eyes, and respiratory tract may be exacerbated by exposure to the isopropyl alcohol.
Target Organs: Eyes, skin, respiratory system
Signs/Symptoms: Inhalation: Mild irritation of eyes, nose and throat.
 Ingestion: Drowsiness, headache
 Dermal Contact: Dry, cracking skin
HMIS: H=1, F=3, R=0
 See Section 8 for PPE information.

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(N/A)

Eye Contact: Flush eyes with copious amount of water for at least 15 minutes
Skin Contact: Flush with water. If irritation persists, seek medical attention.
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention if breathing continues to be difficult.
Ingestion: Do not induce vomiting if victim is unconscious or drowsy. Seek medical attention or contact the poison control center.

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(N/A)

Flash Point: 50% IPA: 74.5 deg F
 70% IPA: 70.5 deg F
 91% IPA: 54 deg F
 99% IPA: 53 deg F
Flash Point Method: TAG Open Cup
Upper Flammable or Explosive 12%

Limit:	
Lower Flammable or Explosive Limit:	2%
Extinguishing Media:	Use water fog, alcohol foam, dry chemical or CO2
Unusual Fire Hazards:	Containers exposed to intense heat from fires should be cooled with large amounts of water to prevent buildup of internal pressure due to vapor generation which could result in container rupture.
Recommendations:	Clear area of unprotected personnel. Wear complete turnout gear. Cool containers exposed to fire with water.
	Auto Ignition Temperature: 50% IPA: No Data 70% IPA: No Data 91% IPA: No Data 99% IPA: 750 deg F

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SECTION 6 : ACCIDENTAL RELEASE MEASURES : (N/A)

Large Spill:	Eliminate all ignition sources. Equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Contain source of spill. Dike or otherwise confine spilled product. Uncontrolled releases to air, land, or water may be reportable to the National Response Center (1-800-424-8802).
Small Spill:	Take up with absorbent material and place in non-leaking container, seal tightly. Dispose of absorbent (See section 13)

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SECTION 7 : HANDLING and STORAGE : (N/A)

Handling:	Precautions: Use non-sparking tools to open containers. Maintain appropriate class of fire extinguishers nearby in case of fire.
Storage:	Requirements: Store in tightly closed containers in a cool, dry area away from heat and other possible ignition sources.
Hygiene Practices:	Recommended: Clean PPE and work clothing contaminated prior to reuse. After working with this product, be sure to wash before eating, smoking, drinking, or applying cosmetics.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION : (N/A)

Engineering Controls:	Recommended: Use explosion-proof ventilation equipment as necessary to maintain airborne concentrations below the PEL. Ground all containers to prevent static sparks during fluid transfers.
	Recommended Admin Controls: Train employees on the hazards of Isopropyl Alcohols
Personal Protective Equipment Routine Handling:	Goggles, gloves, NIOSH approved respiratory protection required when above PEL/TWA
Exposure Limits:	OSHA PEL = 400 ppm OSHA STEL = 500 ppm IDLH = 12,000 ppm Recommended Hygiene Practices: Clean PPE and work clothing contaminated prior to reuse. After working with this product, be sure to wash before eating, smoking, drinking, or applying cosmetics.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES : (N/A)

Physical State/Appearance:	Liquid
Color:	Colorless
Odor:	Mild Rubbing Alcohol
Vapor Pressure:	(@ 68 deg F) approx.: 50% IPA: 29 mm 70% IPA: 23 mm 91% IPA: 33 mm 99% IPA: 33 mm
Boiling Point:	50% IPA: 176 deg F 70% IPA: 176 deg F 91% IPA: 180 deg F 99% IPA: 181 deg F
Freezing Point:	50% IPA: 32 - 50 deg C 70% IPA: 32 - 50 deg C 91% IPA: 32 - 50 deg C 99% IPA: 127 deg F
Solubility:	Water: Miscible
Specific Gravity:	50% IPA: .929 70% IPA: .878 91% IPA: .790 99% IPA: .790
Molecular Weight:	50% IPA: 47.5 70% IPA: 47.5 91% IPA: 47.5 99% IPA: 60.1
Odor Threshold:	43 ppm Flash Point (TAG Open Cup): Auto Ignition Temperature: 50% IPA: No Data 70% IPA: No Data 91% IPA: No Data 99% IPA: 750 deg F

**SECTION 10 : STABILITY and REACTIVITY**

: (N/A)

Chemical Stability:	Stable
Conditions to Avoid:	Heat, sparks, and open flame. Do Not store in aluminum > 120 deg F
Incompatibilities with Other Materials:	Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	CO and unidentified organic compounds may be formed of Decomposition

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: (N/A)

Applies to All Ingredients :

Skin Effects:	LD50: 13,000 mg/kg (acute dermal - rabbit)
Ingestion Effects:	LD50: 5,840 mg/kg (acute oral - rat) LDLo: 5,000 mg/kg (oral - rabbit)
Inhalation Effects:	LD50: 16,000 ppm/8hr (inhalation - rat)
Carcinogenicity:	Not identified as a carcinogen by OSHA, IARC, or NTP
Mutagenicity:	Not Indicated
Reproductive Toxicity:	Not Indicated

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: (N/A)

Ecotoxicity:	Not Applicable
Environmental Fate:	Not Applicable

Soil Absorption/Mobility: Highly Mobile

Environmental Degradation: Should be removed readily from soils and water by volatilization and biodegradation.

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: (N/A)

Waste Disposal:	Contact your supplier or a licensed contractor for detailed recommendations. Disposal Regulatory Requirements: Follow applicable Federal, state and local regulations. Consider fuels blending as an alternative to incineration.
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: (N/A)

DOT Shipping Name:	Isopropanol
DOT UN Number:	UN 1219
DOT Hazard Class:	3
DOT Packing Group:	II
DOT Subpart E Labeling Requirement:	Flammable Liquid

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: (N/A)

Applies to all ingredients:

TSCA 8(b): Inventory Status:	The ingredients of this product are on the TSCA inventory.
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Section 304:	CERCLA Substance: Not Applicable
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Section 304 CERCLA RQ:	10,000 lbs (Default)
Section 312 Hazard Category:	SARA 311/312 Codes: Not Applicable

Section 313 Toxic Release Form:	SARA Toxic Chemical: Yes, (Strong manufacturing only)
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RCRA 261.33 Code:	D001
Section 112(r): Clean Air Act	HAZARDOUS AIR POLLUTANT (CAA): No

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: (N/A)

HMIS:	
Health Hazard:	1
Fire Hazard:	3
Reactivity:	0
Personal Protection:	See Section 8 for PPE information
MSDS Revision Date:	January 2004

MSDS Author: Cumberland Swan

Disclaimer:

While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser's responsibility to ensure the suitability of such information as it applies to the purchaser's intended use of the material.

Sources of Information: 29 CFR 1910.1000; NIOSH Pocket Guide to Chemical Hazards (1993); Occupational Health Guidelines for Chemical Hazards; NFPA Guide to Hazardous Materials - 10th Edition.

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