

Feb 09 2005 10:03AM HP LASERJET 3200

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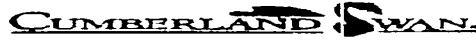
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Material Safety Data Sheet



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**SECTION 1: Chemical Product and Company Identification**

Manufacturer: Cumberland Swan  
One Swan Drive  
Smyrna, TN 37167

Date: March 2000

Product: Isopropyl Alcohol (IPA)

50%, 70%, 91% and 99% IPA

Telephone: (615) 459-8900

24hr Emergency: (615) 459-8900 ext. 5270

**SECTION 2: Composition/Information on Ingredients**

Name: Isopropanol, IPA, 2-Propanol, Dimethyl Carbinol CAS#: 67-63-0

**SECTION 3: Hazards Identification**

Colorless, volatile liquid with the odor of rubbing alcohol. Isopropyl 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.

Potential Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms of Overexposure:

- Inhalation: Mild irritation of eyes, nose and throat.
- Ingestion: Drowsiness, headache
- Dermal Contact: Dry, cracking skin
- 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 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 isopropyl alcohol.

HMIS: H=1, F=3, R=0 See Section 8 for PPE information

**SECTION 4: First Aid Measures**

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

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**Section V—Reactivity Data**

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Stability	Unstable	Conditions to Avoid Heat, sparks, open flame.	
	Stable		
	X		
Incompatibility (Materials to Avoid)	Avoid contamination with alkalis and acids.		
Hazardous Decomposition or Byproducts	Burning can produce carbon monoxide and/or carbon dioxide.		
Hazardous Polymerization	May Occur	Conditions to Avoid	None
	Will Not Occur		

**Section VI—Health Hazard Data**

Route(s) of Entry:	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
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**Health Hazards (Acute and Chronic)**

Acute: Eyes- causes moderate irritation and possible corneal injury. Skin- may cause slight reddening. Inhalation- may cause headache, dizziness, nausea, vomiting. Ingestion- May cause nausea, vomiting, diarrhea.  
 Chronic: repeated overexposure may lead to liver and kidney damage.

Mutagenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
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Signs and Symptoms of Exposure	Eye and skin irritation. Headache, dizziness, nausea, vomiting, diarrhea.
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Medical Conditions Generally Aggravated	Repeated overexposure may cause hemolysis of red blood cells leading to possible liver and kidney damage.
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Emergency and First Aid Procedures	Eyes-Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention without delay. Skin- flush with water. If irritation persists, call a physician. Ingestion-get medical attention. Inhalation-remove to fresh air.
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**Section VII—Precautions For Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled	Wear suitable protective equipment. Small spills should be flushed with large quantities of water. For larger spills absorb with clay-type absorbent and sweep to containment area.
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Waste Disposal	In accordance with federal, state and local regulations.
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Precautions to be Taken in Handling and Storage	Avoid breathing vapor. Keep away from heat and flame. Avoid contact with eyes, skin, and clothing. Keep container closed when not in use. Use with adequate ventilation.
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Other Precautions	Keep away from children
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**Section VIII—Control Measures**

Respiratory Protection (Specify Type)	Use a NIOSH/MSHA jointly approved air supplied respirator if the TLV of the product or any of its ingredients exceeded.
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Ventilation	Local Exhaust	Only if mechanical is inadequate	Special	N/A
	Mechanical (General)	Satisfactory	Other	N/A

Protective Gloves	Rubber or PVC	Eye Protection	Goggles
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Other Protective Clothing or Equipment	Eye Wash Station	Work / Hygiene Practices	Observe good personal hygiene. Wash hands before eating, avoid inhalation or ingestion.
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**Material Safety Data Sheet**

May be used to Comply with  
 OSHA's Hazard Communication Standard 29 CFR 1910.  
 Standard must be consulted for specific requirements

**U.S. Department of Labor**  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form) Form Approved OMB No. 1218-0

Identity (As Used On Label and List) <b>538</b>		NOTE: Blank spaces are not permitted. If any item is not applicable, or information is available, the space must be marked to indicate.
5231	Ink Remover	

Section I—Manufacturer's Name (Address, Street, City, State, & Zip Code)		HAZARD RATING	
Badger Air-Brush Co. 9128 West Belmont Ave Franklin Park IL 60131		Emergency Telephone Number	HEALTH 3
		1-800-592-1900	FLAMMABILITY 2
		Telephone Number for Information	REACTIVITY 1
		(630) 595-1800	4 - Skin
Date Prepared	Protective Equipment:	Goggles, Gloves, Vapor Respirator	
Revised: 10/26/98			

Section II—Hazardous Ingredients / Identity Information		OSHA PEL		ACGIH TLV		Other Limits Recommended		% (optional)	
Hazardous Components (Specify Chemical Identity, Common Names)		50 ppm		25 ppm		N/A		70 %	
Butyl Cellosolve, 2-Butoxyethanol, CAS# 111-76-2									
Subject to the reporting requirements of Sec.313 of SARA Title III of 40 CFR 372.									
morpholine, CAS# 110-91-8		20 ppm		20 ppm		N/A			

Section III—Physical Chemical Characteristics			
Boiling Point	340.2°F	Specific Gravity (WATER =1)	0.944
Vapor Pressure	0.6 mm Hg	Melting Point	N/A
Vapor Density	4.1 (Air=1)	Evaporation Rate	0.08 (Butyl Acetate=1)
Solubility in Water	Complete		
Appearance and Odor	clear yellow liquid with butyl odor.		

Section IV—Fire and Explosion Hazard Data			
Flash Point	Flammable Limits	LEL	UEL
150°F (T.C.C.)		1.1	10.6

Extinguishing Media  
 Use water spray, carbon dioxide, dry chemical, alcohol type, or universal type foams applied by manufacturers' recommended techniques.

Special Fire Fighting Procedures  
 Use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards  
 Do not expose to heat, flame, sparks, or other sources of ignition. Vapors may be flammable and travel long distances.