



MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: SatPax ® 6% IPA / 94% DI H₂O

Synonyms: SPXC1000.003.12 / SPXC1000.03.12R / SPX1000.011.12 / SPX1200.004.12 / SPXV1500.004.12 / SPXV1500.006.12 / SSP1000.002.24

Manufacturer Name:

Berkshire Corporation
21 River Street
Tel : (800) 242-7000 or (413) 528-2602
Fax : 413-528-2614
Web: www.berkshire.com

Emergency Telephone:

CANUTEC (613) 996-6666
CHEMTREC, U.S. : (800) 424-9300
International: (703) 527-3887

Intended Use: Wiping and cleaning various surfaces and component

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Solid (cloth wiper)

Color: Cloth: White
Isopropyl Alcohol: Colorless

Odor: Rubbing alcohol

WARNING!

Causes skin, eye and respiratory tract irritation. May cause damage to central nerve system.

Flammable solid.

Potential Health Effects

Eye Contact: Irritating to eyes.

Skin: Irritating to skin.

Inhalation: Irritating to respiratory system.

Ingestion: No known significant effects or critical hazards.

Potential Chronic Health Effects: Carcinogenic effects: Classified None. By OSHA [Isopropyl alcohol]. Classified A4 (not classifiable for humans or animals) by ACGIH, 3 (not classifiable for humans.) by IARC [Isopropyl alcohol].

Mutagenic effects: Classified None for humans [Isopropyl alcohol]
 Teratogenic effects: Not available

Medical Conditions Aggravated by Overexposure: Repeated skin exposure can produce skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce target organ damage.

3 COMPOSITION / INFORMATION ON INGREDIENTS

United States								
Name			CAS number	%				
Isopropyl alcohol			67-63-0	5 - 6				
Canada								
Name			CAS number	%				
Isopropyl alcohol			67-63-0	5 - 6				
Mexico								
Name	UN number	IDLH	H	F	R	Special	CAS number	%
Isopropyl alcohol	UN1219	2000ppm	1	2	0		67-63-0	5 - 6

Final product is comprised of solid cloth media that is saturated with the above components. Fill volume is controlled to ensure that no free liquid is present in the final product packaging.

4 FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Skin Contact: Wash with soap and water. Get medical attention if symptoms occur.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Notes to physician: No specific antidote. Medical staff must contact Poison Control Center.

5 FIRE-FIGHTING MEASURES

Flammability of the product: Flammable.

Products of combustion:	Decomposition products may include the follow materials: carbon oxides.
Extinguishing media:	Use dry chemical powder.
Not suitable:	None known.
Special exposure hazards:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. No specific fire or explosion hazard.
Special protective equipment for fire-fighters:	Firefighters should wear appropriate protective equipment and self-containing breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use suitable protective equipment
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up:	Place spilled material in an appropriate container for disposal.

7 HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
Storage:	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION
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	United States
Product name Isopropyl alcohol	Exposure Limits ACGIH TLV (United States 1/2006) STEL: 400 ppm 15 minute(s) TWA: 200 ppm 8 hour(s) NIOSH REL (United States, 12/2001) STEL: 1225 mg/m ³ 15 minute(s) STEL: 500 ppm 15 minute(s) TWA: 980 mg/m ³ 10 hour(s)

	TWA: 400 ppm 10 hour(s) OSHA PEL (United States, 11/2006) TWA: 980 mg/m ³ 8 hour(s) TWA: 400 ppm 8 hour(s)
Product name Isopropyl alcohol	Canada Exposure Limits ACGIH TLV (United States 1/2006) STEL: 400 ppm 15 minute(s) TWA: 200 ppm 8 hour(s)
Product name Isopropyl alcohol	Mexico Exposure Limits NOM-010-STPS (Mexico, 9/2000) LMPE-CT: 1225 mg/m ³ 15 minute(s) LMPE-CT: 500 ppm 15 minute(s) LMPE-PPT: 980 mg/m ³ 8 hour(s) LMPE-PPT: 400 ppm 8 hour(s)

Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eyes: Safety glasses.

Skin: Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory: No protection is ordinarily required under normal conditions of use and with adequate ventilation.

Hands: Rubber (natural, latex).

HMIS Code/Personal protective equipment: B

Hygiene measures: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Physical State: Solid (cloth wiper)
Flash Point: 51°C (123.8°F) (Closed Cup)
Auto-ignition Temperature: 399°C (750°F)
Flammability Limit Lower: 2%
 Upper: 12.7%

Color: Cloth: White
 Isopropyl alcohol: Colorless
Odor: Rubbing alcohol
Solubility: Insoluble

10	STABILITY AND REACTIVITY
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Stability and Reactivity: The product is stable.
Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: None.
Hazardous polymerization: Will not occur
Conditions of reactivity: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.

11	TOXICOLOGICAL INFORMATION
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Product/ingredient name	Toxicity Data		
	Test / Route	Species	Result
Isopropyl alcohol	LD50 Dermal	Rabbit	12800mg/kg
	LD50 Intraperitoneal	Rat	2735 mg/kg
	LD50 Intravenous	Rat	1088 mg/kg
	LD50 Oral	Rat	5045 mg/kg
	LD50 Oral	Rat	5000 mg/kg

Acute Effects:
Eyes: Irritating to eyes
Skin: Irritating to skin
Inhalation: Irritating to respiratory system
Ingestion: No known significant effects or critical hazard
Potential chronic health: Carcinogenic effects: Classified None by OSHA [Isopropyl alcohol]. Classified A4 (not classified for humans or animals) by ACGIH, 3 (not classified for humans.) by IARC [Isopropyl alcohol].
 Mutagenic effects: Classified None for humans [Isopropyl alcohol]
 Teratogenic effects: Not available
Target organs: Contains materials which may cause damage to the following organs: central nervous system (CNS).

12	ECOLOGICAL INFORMATION
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Ecotoxicity:

Product/ingredient name	Species	Ecotoxicity Data		
		Test	Exposure	Result
Isopropyl alcohol	Fish	Behavior	48 hours	Acute EC50 10000 mg/L
	Fish	Mortality	96 hours	Acute LC50 10400 mg/L
	Fish	Mortality	96 hours	Acute LC50 11130 mg/L
	Fish	Mortality	96 hours	Acute LC50 9640 mg/L
	Fish	Mortality	96 hours	Acute LC50 6550 mg/L
	Fish	Mortality	96 hours	Acute LC50 >1400 mg/L

Environmental precautions: No known significant effects or critical hazards.

Products of degradation: Products of degradation: carbon oxides (CO, CO₂) and water.

13	DISPOSAL CONSIDERATIONS
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Waste disposal	The generation of waste should be avoided or minimized whenever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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14	TRANSPORT INFORMATION
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DOT Other Regulated Materials (ORM) - Definitions subject to the requirements of 49CFR HMR per Section 173.144

TDG

UN No.: UN3175

Proper Shipping Name: Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)

Class: 4.1

Packing Group: II

IATA

UN No.: UN3175

Proper Shipping Name: Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)

Class: 4.1

Packing Group: II

Label(s): 4.1

IMDG

UN No.: UN3175

Proper Shipping Name: Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)

Class: 4.1

Packing Group: II

EmS No.: F-A, S-I

15	REGULATORY INFORMATION
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Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: B4, D2B

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status: All substances are listed on AICS, CHINA, DSL, EINECS, KECI, PICCS, TSCA.

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA:

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
Massachusetts Right-To-Know List: Isopropyl alcohol

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Isopropyl alcohol

New Jersey Right-To-Know List: Isopropyl alcohol

Pennsylvania Right-To-Know List: Isopropyl alcohol

Rhode Island Right-To-Know List: Isopropyl alcohol

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	1	2	0	--

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe
 NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	1*	2	0	B

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe * - Chronic Health Effect
 Personal Protection codes: B - Safety Glasses, Gloves
 HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.