



MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: SatPax ® 5% IPA / 95% DI H 2O

Synonyms: SPXHA.05.15AMD, SPXHA.07B.16SPA

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 (fiber)

Color: White

Odor: Rubbing alcohol

WARNING!

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

Flammable solid.

Potential Health Effects

Inhalation: Causes respiratory tract irritation.

Eye Contact: Causes eye irritation.

Skin Contact: Causes skin irritation. Prolonged skin contact may cause dermatitis.

Ingestion: None known.

Chronic Health Effects: Repeated or prolonged exposure to the substance can produce target organ damage.

Target Organ(s): | Respiratory system | Eye | Lung | Nervous system | Skin |

Potential Physical / Chemical Effects: FLAMMABLE.

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: The environmental hazard of the product is considered to be limited.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration*
†Isopropyl alcohol	67-63-0	1 - 5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

4 FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing stops, provide artificial respiration. Get medical attention if symptoms occur.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

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

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

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Powder.

Unsuitable Extinguishing Media: None known.

Special Fire Fighting Procedures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards noted.

Hazardous Combustion Products: Carbon Oxides

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment.

Spill Cleanup Methods: Collect in approved containers and seal securely.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Avoid breathing mist or vapor. Wash thoroughly after handling.

Storage: Keep container tightly closed in a cool, well-ventilated place. Avoid heat, sparks, open flames and other ignition sources. Store away from incompatible materials.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Isopropyl alcohol	ACGIH	TWA	200 ppm	
Isopropyl alcohol	ACGIH	STEL	400 ppm	
Isopropyl alcohol	British Columbia OELs	STEL	400 ppm	
Isopropyl alcohol	British Columbia OELs	TWA	200 ppm	
Isopropyl alcohol	Canada. Alberta OELs	STEL	500 ppm 1230 mg/m ³	
Isopropyl alcohol	Canada. Alberta OELs	TWA	400 ppm 983 mg/m ³	
Isopropyl alcohol	Mexico OELs	STEL	500 ppm 1225 mg/m ³	
Isopropyl alcohol	Mexico OELs	TWA	400 ppm 980 mg/m ³	
Isopropyl alcohol	NIOSH Guide	IDLH	2000 ppm	
Isopropyl alcohol	Quebec OELs	STEL	500 ppm 1230 mg/m ³	
Isopropyl alcohol	Quebec OELs	TWA	400 ppm 985 mg/m ³	
Isopropyl alcohol	US. OSHA Table Z-1	TWA	400 ppm 980 mg/m ³	

Engineering Controls: If dust or fumes are generated during use, use local exhaust in combination with general ventilation as necessary to remove fumes/dust from the workers' breathing zone and to ensure exposures do not exceed applicable limits.

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

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Rubber (natural, latex).

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

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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

spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
----------	---

Color: White

Odor: Rubbing alcohol

Odor Threshold: No data available.

Physical State: Solid (fiber)

pH: No data available

Melting Point: No data available.

Freezing Point: No data available.

Boiling Point: No data available.

Flash Point: 51°C (123.8°F) (Closed Cup)

Evaporation Rate: No data available.

Flammability Limit - Upper (%): 12.7

Flammability Limit - Lower (%): 2

Vapor Pressure: No data available.

Vapor Density (Air=1): No data available.

Specific Gravity: No data available.

Solubility in Water: Insoluble

Solubility (Other): Insoluble

Partition Coefficient (n-Octanol/water): No data available.

Autoignition Temperature: 399°C (750°F)

Decomposition Temperature: No data available.

10	STABILITY AND REACTIVITY
-----------	---------------------------------

Stability: Stable.

Conditions to Avoid: Shocks and physical damage. Static discharge may cause ignition at temperatures at or above flashpoint. Open flame.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: None.

Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
-----------	----------------------------------

Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Isopropyl alcohol	Dermal LD50 (Rabbit): 12800 mg/kg
Isopropyl alcohol	Oral LD50 (Rat): 5045 mg/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Isopropyl alcohol	Not Listed	Not Listed	Not Listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Product Information

Acute Toxicity: Causes skin, eye and respiratory tract irritation.

Chronic Toxicity: May cause damage to central nerve system.

12	ECOLOGICAL INFORMATION
-----------	-------------------------------

Ecotoxicity:

Specified Substance(s)

Chemical Name	Test
Isopropyl alcohol	LC50 (96 hour(s), <i>Oryzia latipes</i>): 9640 mg/l

13	DISPOSAL CONSIDERATIONS
-----------	--------------------------------

General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Methods: Dispose waste and residues in accordance with applicable federal, state, and local regulations. Do not allow runoff to sewer, waterway or ground.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14	TRANSPORT INFORMATION
-----------	------------------------------

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
-----------	-------------------------------

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
-----------	--------------------------

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.