

Material Safety Data Sheet

SatPax[®] 9% IPA / 91% DI H₂O



1. Product and company identification

- Common name** : SatPax[®] 9% IPA / 91% DI H₂O
- Trade name** : SPX1000.002.12 / SPX1200.002.12 / SPX3000.002.12 / SPXC1000.002.12 / SPXC1000.02.12R / SPXV1500.002.12 / SPXM1200.002.12
- Material uses** : Wiping and cleaning various surfaces and components.
- Supplier/Manufacturer** : Berkshire Corporation
21 River Street
Great Barrington, MA, 01230
Tel : (800) 242-7000 or (413) 528 2602
Fax : 413-528-2614
Web: www.berkshire.com
- In case of emergency** : CANUTEC (613) 996-6666
CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887
- MSDS authored by:** : Atrion Regulatory Services, Inc. 06/30/2007

2. Hazards identification

- Physical state** : Solid. [Cloth wiper.]
- Odor** : Rubbing alcohol.
- Color** : Cloth: White.
Isopropyl alcohol: Colorless.
- Hazard status** : This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico.
- Emergency overview** : WARNING !
FLAMMABLE SOLID.
VAPOR MAY CAUSE FIRE.
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: CENTRAL NERVOUS SYSTEM.
Avoid contact with skin and clothing. Avoid breathing vapors of this product. Use only with adequate ventilation. Keep away from heat, sparks and flame. Wash thoroughly after handling.
- Potential acute health effects**
- Eyes** : 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 over-exposure** : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce target organ damage.
- See toxicological information (section 11)**

3. Composition/information on ingredients

United States

Name	CAS number	%
Isopropyl alcohol	67-63-0	5 - 10

Canada

Name	CAS number	%
Isopropyl alcohol	67-63-0	5 - 10

Mexico

Name	UN number	IDLH	Classification				CAS number	%
			H	F	R	Special		
Isopropyl alcohol	UN1219	2000 ppm	1	2	0	67-63-0	5 - 10	

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 appear.
- 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 following materials:
carbon oxides
- Extinguishing media**
 - Suitable** : 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a 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

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/m³ 15 minute(s).
 STEL: 500 ppm 15 minute(s).
 TWA: 980 mg/m³ 10 hour(s).
 TWA: 400 ppm 10 hour(s).
OSHA PEL (United States, 11/2006).
 TWA: 980 mg/m³ 8 hour(s).
 TWA: 400 ppm 8 hour(s).

Canada

Product name
Isopropyl alcohol

Exposure limits
ACGIH TLV (United States, 1/2006).
 STEL: 400 ppm 15 minute(s).
 TWA: 200 ppm 8 hour(s).

Mexico

Product name
Isopropyl alcohol

Exposure limits
NOM-010-STPS (Mexico, 9/2000).
 LMPE-CT: 1225 mg/m³ 15 minute(s).
 LMPE-CT: 500 ppm 15 minute(s).
 LMPE-PPT: 980 mg/m³ 8 hour(s).
 LMPE-PPT: 400 ppm 8 hour(s).

- Engineering measures** : 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** : Lab coat.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.
- Hands** : Natural rubber (latex).



HMIS Code/Personal protective equipment : B

Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

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.

9 . Physical and chemical properties

Physical state : Solid. [Cloth wiper.]
Flash point : Closed cup: 40°C (104°F)
Auto-ignition temperature : 399°C (750.2°F)
Flammable limits : Lower: 2%
 Upper: 12.7%
Color : Cloth: White.
 Isopropyl alcohol: Colorless.
Odor : Rubbing alcohol.
Solubility : Insoluble

10 . Stability and reactivity

Stability and reactivity : The product is stable.
Incompatibility with various substances : Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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

Toxicity data			
Product/ingredient name	Test / Route	Species	Result
Isopropyl alcohol	LD50 Dermal	Rabbit	12800 mg/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 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.
Target organs : Contains material which may cause damage to the following organs: central nervous system (CNS).

12 . Ecological information

Ecotoxicity data

Product/ingredient name	Species	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

Waste disposal : The generation of waste should be avoided or minimized wherever 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

14 . Transport information

NAERG : 133

Regulatory information	Proper shipping name	Class	UN number	PG	Label
UN / IMDG / IATA Classification	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol)	4.1	UN3175	II	
DOT Classification	ORM-D	-	-	-	
TDG Classification	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol)	4.1	UN3175	II	

15 . Regulatory information

United States

HCS Classification : Flammable solid
Irritating material
Target organ effects

U.S. Federal regulations : TSCA : All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Isopropyl alcohol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification

Isopropyl alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention No products were found.

Clean Air Act (CAA) 112 regulated flammable substances No products were found.

Clean Air Act (CAA) 112 regulated toxic substances No products were found.

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	: Isopropyl alcohol	67-63-0	5 - 10
Supplier notification	: Isopropyl alcohol	67-63-0	5 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

- : **Connecticut Carcinogen Reporting:** None of the components are listed.
- : **Connecticut Hazardous Material Survey:** None of the components are listed.
- : **Florida substances:** None of the components are listed.
- : **Illinois Chemical Safety Act** None of the components are listed.
- : **Illinois Toxic Substances Disclosure to Employee Act** None of the components are listed.
- : **Louisiana Reporting:** None of the components are listed.
- : **Louisiana Spill:** None of the components are listed.
- : **Massachusetts Spill:** None of the components are listed.
- : **Massachusetts Substances:** The following components are listed: Isopropyl alcohol
- : **Michigan Critical Material:** None of the components are listed.
- : **Minnesota Hazardous Substances:** None of the components are listed.
- : **New Jersey Hazardous Substances:** The following components are listed: Isopropyl alcohol
- : **New Jersey Spill:** None of the components are listed.
- : **New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.
- : **New York Acutely Hazardous Substances:** None of the components are listed.
- : **New York Toxic Chemical Release Reporting:** None of the components are listed.
- : **Pennsylvania RTK Hazardous Substances:** The following components are listed: Isopropyl alcohol
- : **Rhode Island Hazardous Substances:** None of the components are listed.
- : **California prop. 65:** No products were found.

Canada

WHMIS (Canada)

- : Class B-4: Flammable solid.
- : Class D-2B: Material causing other toxic effects (Toxic).



Canada inventory

- : **Canada inventory:** All components listed.
- : **CEPA Toxic substances:** None of the components are listed.
- : **Canadian ARET:** None of the components are listed.
- : **Canadian NPRI:** The following components are listed: Isopropyl alcohol
- : **Alberta Designated Substances:** None of the components are listed.
- : **Ontario Designated Substances:** None of the components are listed.
- : **Quebec Designated Substances:** None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA, the American National Standard Institute (ANSI) Z400.1 and NOM -018-STPS-2000.

Mexico

Classification

:



HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements (U.S.A.) : FLAMMABLE SOLID.
 VAPOR MAY CAUSE FIRE.
 CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
 CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS:
 CENTRAL NERVOUS SYSTEM.

Hazardous Material Information System (U.S.A.) :

HMIS RATING

Health	*	1
Fire hazard		2
Physical Hazard		0
Personal protection		B

HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.