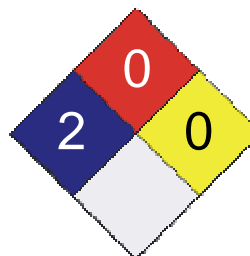


1. Product and Company Identification

Product Name	Sani-Cloth Plus	MSDS No. MSDS0002
CAS #	Mixture	
Product use	Germicidal Cleaner	
Manufacturer	Nice-Pak Products, Inc. or PDI, The Healthcare Div. of Nice-Pak Products, Inc. Two Nice-Pak Park Orangeburg, NY 10962-1376 Toronto, ON M9L 1V8 Canada Flint, United Kingdom Phone (USA) 1-845-365-1700 (M-F 8am - 5pm) Phone (CANADA) 1-800-263-7067 Phone (United Kingdom) +44 (0) 1352-736700	

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview	CAUTION Hazards to humans and domestic animals. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation.
Eyes	Moderately irritating to the eyes.
Skin	Overexposures may cause irritation.
NIOSH - Pocket Guide - Skin Notations	
Ethanol, 2-butoxy-	111-76-2 Potential for dermal absorption
Inhalation	Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Target organs	Blood. Eyes. Respiratory system. Skin.
Chronic effects	This product may be harmful if it is absorbed through the skin. Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
2-Propanol	67-63-0	10 - 20
Ethanol, 2-butoxy-	111-76-2	1 - 4
Benzyl-C12-18-alkyldimethyl ammonium chlorides	68391-01-5	0.1 - 1
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides	68956-79-6	0.1 - 1
Composition comments	Active ingredients are listed above.	

4. First Aid Measures

First aid procedures

Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	If irritation develops, obtain medical attention.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	None known.
General advice	Wear suitable protective clothing. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Alcohol foam. Water spray or fog.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment and clothing during clean-up.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Remove sources of ignition. Pick up and discard towel.

7. Handling and Storage

Handling	Use according to package label instructions.
Storage	Keep out of reach of children. Keep away from heat, open flames or other sources of ignition. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)	Exposure Limits
2-Propanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm OSHA-PEL TWA: 400 ppm
Benzyl-C12-18-alkyldimethyl ammonium chlorides	ACGIH-TLV Not established OSHA-PEL Not established
Ethanol, 2-butoxy-	ACGIH-TLV TWA: 20 ppm OSHA-PEL TWA: 50 ppm
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides	ACGIH-TLV Not established OSHA-PEL Not established
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	Safety glasses
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code. When using this product, wear disposable protective gloves, protective gowns, face masks, or eye coverings as appropriate when handling HIV-1, HBV or HCV infected blood or body fluids.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Liquid saturated on wipe
Color	Opaque white
Form	Pre-moistened towelette.
Odor	Mild alcohol.
Odor threshold	Not available
Physical state	Pre-moistened towelette
pH	11 - 12 (liquid)
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.88 - 1.07 (liquid) (H2O = 1)
Octanol/water coefficient	Not available

Solubility (H2O)	Pad is not soluble in water
Auto-ignition temperature	Not available
Viscosity	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Oxidizing agents. Anionic surfactants. Soaps.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
2-Propanol	16970 mg/l/4h rat
Benzyl-C12-18-alkyldimethyl ammonium chlorides	Not available
Ethanol, 2-butoxy-	2.21 mg/l/4h rat
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
2-Propanol	4396 mg/kg rat
Benzyl-C12-18-alkyldimethyl ammonium chlorides	240 mg/kg rat
Ethanol, 2-butoxy-	470 mg/kg rat; 320 mg/kg rabbit
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides	250 mg/kg rat

Effects of acute exposure

Eye	Moderately irritating to the eyes.
Skin	Overexposures may cause irritation.

NIOSH - Pocket Guide - Skin Notations

Ethanol, 2-butoxy-	111-76-2	Potential for dermal absorption
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Inhalation Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by OSHA criteria.

Chronic effects Non-hazardous by OSHA criteria.

Carcinogenicity Non-hazardous by OSHA criteria.

ACGIH - Threshold Limits Values - Carcinogens

2-Propanol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
Ethanol, 2-butoxy-	111-76-2	A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC - Group 3 (Not Classifiable)

2-Propanol	67-63-0	Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977]
Ethanol, 2-butoxy-	111-76-2	Monograph 88 in preparation

Mutagenicity Non-hazardous by OSHA criteria.

Reproductive effects Non-hazardous by OSHA criteria.

Teratogenicity Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae Data		
2-Propanol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
Ecotoxicity - Freshwater Fish Species Data		
2-Propanol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
Ethanol, 2-butoxy-	111-76-2	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]
Ecotoxicity - Microtox Data		
2-Propanol	67-63-0	5 Min EC50 Photobacterium phosphoreum: 35390 mg/L
Ecotoxicity - Water Flea Data		
2-Propanol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
Ethanol, 2-butoxy-	111-76-2	24 Hr EC50 water flea: 1720 mg/L; 24 Hr LC50 Daphnia magna: 1698-1940 mg/L
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal. Dispose of used towelette in accordance with local regulations for infectious waste disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Department of Transportation (DOT)

Not regulated as a hazardous material. Not flammable per ICAO Test Method 1.1.2.1

15. Regulatory Information

US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. EPA Registration No. 9480-6	
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Ethanol, 2-butoxy-	111-76-2	1 Lb statutory RQ (no final RQ is being assigned to the generic or broad class. Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH2CH2)n-OR" where n = 1, 2 or 3, R = alkyl or aryl groups, R" = R h or groups which when removed yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are excluded from glycol category); 0.454 k
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
2-Propanol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
Ethanol, 2-butoxy-	111-76-2	1.0 Percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where n = 1,2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes	
CERCLA (Superfund) reportable quantity		
	None	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

2-Propanol	67-63-0	Present
Ethanol, 2-butoxy-	111-76-2	Present

U.S. - Illinois - Toxic Air Contaminants

Ethanol, 2-butoxy-	111-76-2	Present
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U.S. - Louisiana - Reportable Quantity List for Pollutants

Ethanol, 2-butoxy-	111-76-2	100 Lb RQ
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U.S. - Massachusetts - Right To Know List

2-Propanol	67-63-0	Present
Ethanol, 2-butoxy-	111-76-2	Present

U.S. - Minnesota - Hazardous Substance List

2-Propanol	67-63-0	Present
Ethanol, 2-butoxy-	111-76-2	Skin

U.S. - New Jersey - Right to Know Hazardous Substance List

2-Propanol	67-63-0	sn 1076; sn 2381 (strong-acid process manufacture)
Ethanol, 2-butoxy-	111-76-2	sn 0275

U.S. - Pennsylvania - RTK (Right to Know) List

2-Propanol	67-63-0	Environmental hazard
Ethanol, 2-butoxy-	111-76-2	Present

U.S. - Rhode Island - Hazardous Substance List

2-Propanol	67-63-0	Toxic; Flammable
Ethanol, 2-butoxy-	111-76-2	Toxic

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Recommended use

Cleaner

Further information

Caution: Keep out of reach of children. Avoid contact with eyes and skin. Not for use on skin. Not a baby wipe. For use on hard surfaces only. Do not use on natural marble, windows, unpainted wood, brass, clear plastic or coloured grout.

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Prepared by

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