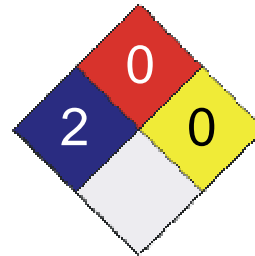


**1. Product and Company Identification**

**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
<b>Composition comments</b>	Active ingredients are listed above.	

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	If irritation develops, obtain medical attention.
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	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.
<b>Notes to physician</b>	None known.
<b>General advice</b>	Wear suitable protective clothing. If you feel unwell, seek medical advice (show the label where possible).

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## 5. Fire Fighting Measures

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

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## 6. Accidental Release Measures

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

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## 7. Handling and Storage

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<b>Handling</b>	Use according to package label instructions.
<b>Storage</b>	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	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 400 ppm <b>OSHA-PEL</b> TWA: 400 ppm
Benzyl-C12-18-alkyldimethyl ammonium chlorides	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Ethanol, 2-butoxy-	<b>ACGIH-TLV</b> TWA: 20 ppm <b>OSHA-PEL</b> TWA: 50 ppm
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> 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) (H <sub>2</sub> O = 1)
Octanol/water coefficient	Not available

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

## 10. Chemical Stability & Reactivity Information

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

<b>Eye</b>	Moderately irritating to the eyes.
<b>Skin</b>	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

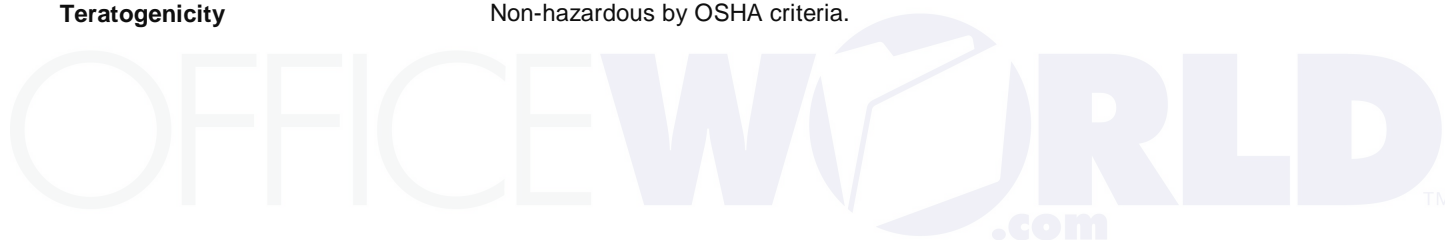
#### IARC - Group 3 (Not Classifiable)

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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### Effective date

31-Mar-2007

### Prepared by

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