

**1. IDENTIFICATION**

**Product Name:** Sani-24® Germicidal Spray

**SDS 0278-00**

**Finished Product Number:** N/A

**Formula Item Number:** 15000-130

**EPA Registration Number:** 42182-9-9480

**Date of Preparation:** February 8, 2019

**Recommended use of the chemical and restrictions on use:**

**Recommended use:** Use as a disinfectant on hard, nonporous surfaces.

**Restrictions on use:** For Professional and Hospital Use.

**Manufacturer/Supplier:** Nice-Pak/PDI, Inc.  
Two Nice-Pak Park  
Orangeburg, NY 10962-1376

**Phone Number:** 1-845-365-1700

**Emergency Phone Number:** **PERS:** 1-800-633-8253 (Domestic/Canada)  
1-801-629-0667 (International)

**2. HAZARD(S) IDENTIFICATION**

**GHS Classification:**

Physical	Health	Environmental
Flammable Liquid Category 3	Eye Irritant Category 2A	Not Classified

**Label Elements:**

Warning!



**Hazard Statements:**

Flammable liquid and vapor.  
Causes serious eye irritation.

**Precautionary Statements:**

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.  
Keep container tightly closed.  
Ground or bond container and receiving equipment.  
Use explosion-proof electrical, ventilating, or lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash thoroughly after handling.

Wear eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

In case of fire: Use water fog, alcohol-resistant foam, carbon dioxide and dry chemical to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with local and national regulations.

**Other Hazards:** None known.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Ethyl Alcohol (Ethanol)	64-17-5	65-80%
Isopropanol	67-63-0	<5%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride	68424-85-1	<0.5%
Octyl decyl dimethyl ammonium chloride	32426-11-2	<0.5%
Didecyl dimethyl ammonium chloride	7173-51-5	<0.5%
Dioctyldimethylammonium chloride	5538-94-3	<0.5%

### 4. FIRST-AID MEASURES

#### Description of First Aid Measures:

**Eye:** Immediately flush eyes with water for 15 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Get medical attention if irritation persists.

**Skin:** No first aid should be required. Wash skin with water. Get medical attention if irritation develops or persists.

**Inhalation:** If symptoms develop move victim to fresh air. Get medical attention if irritation or other symptoms persists.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if you feel unwell.

**Most Important Symptoms/Effects, Acute and Delayed:** Direct contact may cause moderate eye irritation. Inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects. Swallowing large amounts of liquid may cause gastrointestinal irritation and central nervous system depression effects such as dizziness, drunkenness, and drowsiness.

**Indication of Immediate Medical Attention and Special Treatment, If Necessary:** None required under normal conditions of use.

### 5. FIRE-FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog, alcohol-resistant foam, carbon dioxide and dry chemical.

**Specific Hazards Arising From the Chemical:** Flammable liquid and vapor. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. Combustion may produce oxides of carbon, nitrogen, halogenated compounds and carbonyl halides. Flammable vapors may be invisible in daylight.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Contain runoff.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Minimize generation of static electricity which may cause sparking. Avoid contact with eyes. Wear appropriate protective clothing as described in Section 8. Avoid breathing vapors or mists. Ventilate area with explosion proof equipment.

**Environmental Hazards:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning Up:** Cover with an inert absorbent material and collect into an appropriate container for disposal. Use non-sparking tools and equipment.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes. Wear protective clothing and equipment as described in Section 8. Avoid breathing vapors or mists. Use with adequate ventilation. Wash hands with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use. Use with non-sparking tools and explosion proof equipment. Refer to product label for additional information on use and handling. Follow all SDS precautions in Section 13 when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry location away from incompatible materials. Do not store near heat or open flame. Protect container from physical damage. Keep containers closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Ethyl Alcohol	1000 ppm STEL ACGIH TLV 1000 ppm TWA OSHA PEL
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride	None Established
Octyl decyl dimethyl ammonium chloride	None Established
Didecyl dimethyl ammonium chloride	None Established

Diocetyl dimethyl ammonium chloride	None Established
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**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

**Individual Protection Measures, Such As Personal Protective Equipment:**

**Respiratory Protection:** If the exposure levels are exceeded, use an approved organic vapor respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with facility protocol, local regulations, and good Industrial Hygiene practice.

**Skin Protection:** Use impervious gloves or follow facility requirements to prevent prolonged skin contact.

**Eye Protection:** Wear safety goggles or other eye protection per facility protocol if splashing or exposure to spray mists is possible.

**Other:** None required under normal conditions of use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b> Clear colorless liquid	<b>Flammable limits:</b> LEL: 3.3% (Ethanol) UEL: 19.0% (Ethanol)
<b>Odor:</b> Slight alcohol odor	<b>Vapor pressure:</b> Not available
<b>Odor Threshold:</b> Not applicable	<b>Vapor density:</b> Not available
<b>pH:</b> 7-9	<b>Relative density:</b> 7.24 lb/gal
<b>Melting point/freezing point:</b> -114.1°C (-173.38°F) (Ethanol)	<b>Solubility(ies):</b> Soluble in water
<b>Boiling point/range:</b> Not available	<b>Partition coefficient (n-octanol/water):</b> Not available
<b>Flash point:</b> 26.7°C (80.1°F)	<b>Auto-ignition temperature:</b> 363°C (685.40°F) (Ethanol)
<b>Evaporation rate:</b> Not available	<b>Decomposition temperature:</b> Not available
<b>Flammability (solid, gas):</b> Not applicable	

**10. STABILITY AND REACTIVITY**

**Reactivity:** Not reactive under normal conditions of use.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions To Avoid:** Keep away from heat, sparks, flames and other sources of ignition.

**Incompatible Materials:** Avoid contact with oxidizing materials and acids.

**Hazardous Decomposition Products:** Thermal decomposition may produce oxides of carbon, nitrogen, halogenated compounds and carbonyl halides.

**11. TOXICOLOGICAL INFORMATION**

**Potential Health Effects:**

**Eye:** Direct contact with liquid may cause moderate eye irritation.

**Skin:** Prolonged contact may cause skin irritation with drying and dermatitis.

**Inhalation:** Inhalation of spray mists or vapors may cause upper respiratory tract irritation, headache, dizziness, drowsiness, confusion, and other central nervous system effects.

**Ingestion:** Swallowing may cause gastrointestinal irritation and central nervous system depression with symptoms similar to those described under inhalation.

**Chronic Effects:** None known.

**Carcinogenicity:** None of the components of this product are listed as a carcinogen or suspected carcinogen by OSHA, IARC, and NTP.

**Reproductive Effects:** Reproductive harm is not expected from this product.

**Mutagenic Effects:** Not expected to cause mutagenic activity.

**Acute Toxicity:**

No toxicity data available for the mixture. The following toxicity data is for the individual components:

Ethanol: Oral rat LD50: 10470 mg/kg, Inhalation rat LC50: 124.7 mg/L/4hr

Isopropanol: Oral rat LD50: 4396 mg/kg, Dermal rabbit LD50: 12800 mg/kg, Inhalation rat LC50: 16970 mg/L/4hr

Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride: Oral rat LD50: 344 mg/kg, Skin rabbit LD50: 3340 mg/kg

Octyl decyl dimethyl ammonium chloride: No toxicity data available

Didecyl dimethyl ammonium chloride: Oral rat LD50: 329 mg/kg, Skin rat LD50: >2000 mg/kg

Diocetyl dimethyl ammonium chloride: Oral rat LD50: 238 mg/kg, Skin rabbit LD50: 191.4 mg/kg

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity:**

Ethanol: 96 hr LC50 Fathead minnow: 14.2 g/L, 48 hr LC50 Ceriodaphnia dubia: 5012 mg/L

Isopropanol: 96 hr LC50 Bluegill (Lepomis macrochirus) : >1400 mg/L, 48 hr EC50 Daphnia: 13299 mg/L, 72 hr IC50 Algae: 1000 mg/L

Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride: 96 hr LC50 Fathead minnow: 0.28 mg/L, 48 hr EC50 Daphnia magna: 0.016 mg/L, 72 hr ErC50 Green Algae: 0.049 mg/L, 96 hr ErC50 Algae: 0.089 mg/L, 34 days NOEC Fathead minnow: 0.032 mg/L, 21 days NOEC Daphnia magna: 0.0042 mg/L (Acute M-Factor: 10, Chronic M-Factor: 1)

Didecyl dimethyl ammonium chloride: 96 hr LC50 Zebrafish: 0.49 mg/L, 48 hr EC50 Daphnia magna: 0.057 mg/L (M-Factor Acute: 10)

Diocetyl dimethyl ammonium chloride: 96 hr LC50 Rainbow trout: 0.35 mg/L, 96 hr LC50 Blue gill: 0.28 mg/L, 34 day NOEC Zebra fish: 32 ug/L, 33 day NOEC Fathead minnow: 18 ug/L (M-Factor Acute: 10)

This product is expected to be toxic to the aquatic environment and harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

**Persistence and Degradability:** Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride: Readily biodegradable- 95.5% in 28 days. Didecyl dimethyl ammonium chloride: Readily biodegradable- 85% after 14 days.

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known.

### 13. DISPOSAL CONSIDERATIONS

**For non-refillable containers:** Do not reuse or refill this container. Offer for recycling. If recycling is not available, put in trash collection.

**For refillable containers:** Rinse cracked or broken containers and offer for recycling. If recycling is not available, discard in trash.

Empty containers or liners may retain some product residues. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of in a safe manner. Dispose in accordance with all local, state and federal regulations.

### 14. TRANSPORT INFORMATION

The following applies to inner packages of <=5 L / 1.3 Gal; package gross weight <=30 kg.

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
US DOT	UN1170	Ethanol solution	3	III	Not applicable
IMDG	UN1170	Ethanol solution	3	III	Not applicable
IATA	UN1170	Ethanol solution	3	III	Not applicable

**Special precautions:** None known

### 15. REGULATORY INFORMATION

#### Safety, Health, and Environmental Regulations Specific for the Product In Question:

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

#### SARA TITLE III:

**Hazard Category for Section 311/312:** See OSHA Hazard Classification in Section 2.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the ingredients of this product are listed on the TSCA inventory.

#### STATE REGULATIONS:

**California Proposition 65:** This product does not contain substances known in the State of California to cause cancer and/or reproductive harm.

**Massachusetts RTK:** Ethyl Alcohol and Isopropanol are listed.

**Pennsylvania RTK:** Ethyl Alcohol and Isopropanol are listed.

**Rhode Island RTK:** Ethyl Alcohol and Isopropanol are listed.

**New Jersey RTK:** Ethyl Alcohol and Isopropanol are listed.

<b>16. OTHER INFORMATION</b>
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<b>HMIS Ratings:</b> Health – 2	Flammability – 3	Physical Hazard - 0
<b>NFPA Ratings:</b> Health – 2	Flammability – 3	Instability – 0

**Date of preparation:** February 8, 2019