MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Sani-Hands ALC Antimicrobial Alcohol Gel Hand Wipes

CAS #: Mixture

Product use: Antimicrobial

Manufacturer: Professional Disposables International, Inc. Two Nice-Pak Park Orangeburg, NY 10962-1376 or Distributed by: Professional Disposables International Ltd. Ontario CA Phone (USA) 1-845-365-1700 (M-F 8am - 5pm) Phone (CANADA) 1-800-263-7067

Product #: 7181

MSDS0027

2. Hazards Identification

Emergency overview: For external use only. Avoid contact with eyes.

WARNING
FLAMMABLE SOLID. Keep away from fire or flame.
Irritating to eyes.
Contains a potential mutagen.

Potential short term health effects

Routes of exposure: Eye, Skin contact, Inhalation, Ingestion.

Eyes: May cause irritation.

Skin: Non-irritating based on test data. Not a skin sensitizer based on test data.

Inhalation: Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

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


Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>64-17-5</td>
<td>60 - 80</td>
</tr>
</tbody>
</table>

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: Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician.
5. Fire Fighting Measures

Flammable properties
- Flammable solid.

Extinguishing media
- Suitable extinguishing media: Dry chemical. Alcohol foam. Carbon dioxide.
- 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
- Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

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.

Other information
- Pick up and discard towel.

7. Handling and Storage

Handling
- Use according to package label instructions. Use good industrial hygiene practices in handling this material.

Storage
- Keep out of reach of children. Store at room temperature in the original container.

8. Exposure Controls / Personal Protection

Exposure Limits

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
</tbody>
</table>

Engineering controls
- General ventilation normally adequate.

Personal protective equipment
- Eye / face protection: Not normally required. Avoid contact with eyes.
- Hand protection: Not required.
- Skin and body protection: As required by employer code.
- 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.
### 9. Physical & Chemical Properties

- **Appearance**: Liquid saturated on wipe
- **Color**: Clear, colorless on a wipe
- **Form**: Pre-moistened towelette.
- **Odor**: Alcohol
- **Odor threshold**: Not available
- **Physical state**: Pre-moistened towelette
- **pH**: Not available
- **Freezing point**: Not available
- **Boiling point**: Not available
- **Flash point**: 23.33 °C (74 °F) (Liquid)
- **Evaporation rate**: Not available
- **Flammability limits in air, lower, % by volume**: Not available
- **Flammability limits in air, upper, % by volume**: Not available
- **Vapor pressure**: Not available
- **Vapor density**: Not available
- **Specific gravity**: 0.893 (Liquid)
- **Octanol/water coefficient**: Not available
- **Solubility (H2O)**: Pad is not soluble in water
- **Auto-ignition temperature**: Not available
- **VOC (Weight %)**: The liquid is a volatile.
- **Viscosity**: Not available
- **Percent volatile**: 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.
- **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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>31623 ppm rat</td>
</tr>
</tbody>
</table>

#### Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>3450 mg/kg mouse; 1501 mg/kg rat</td>
</tr>
</tbody>
</table>

- **Effects of acute exposure**
  - **Eye**: May cause irritation.
  - **Skin**: Non-irritating based on test data. Not a skin sensitizer based on test data.
  - **Inhalation**: Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
  - **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

| Alcohol | 64-17-5 | A4 - Not Classifiable as a Human Carcinogen |
12. Ecological Information

Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data
Alcohol 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L (flow-through) (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L

Ecotoxicity - Microtox Data
Alcohol 64-17-5 5 Min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum: 34534 mg/L

Ecotoxicity - Water Flea Data
Alcohol 64-17-5 48 Hr EC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L

Environmental effects Not available
Aquatic toxicity Not available
Persistence / degradability This product is not readily biodegradable.
Bioaccumilation / 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 Dispose in accordance with all applicable regulations.
Waste from residues / unused products Not available
Contaminated packaging Not available

14. Transport Information

Department of Transportation (DOT)

Basic shipping requirements:
Proper shipping name Solids containing flammable liquid, n.o.s. (ETHANOL)
Hazard class 4.1
UN number UN3175
Packing group II
Additional information:
Special provisions 47, IB6, IP2, T3, TP33
Packaging exceptions <1Kg-Consumer Commodity ORM-D
ERG number 133

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.

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 - Yes
- Fire Hazard - Yes
- 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
- United States & Puerto Rico

Inventory name
- Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)*
No

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

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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
For external use only. Keep away from children, unless under adult supervision.

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Prepared by
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