## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Swisher Sani Rinse II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>41739-1</td>
</tr>
<tr>
<td>Reference number(s)</td>
<td>40191-5</td>
</tr>
<tr>
<td>UN/ID No</td>
<td>UN1903</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Disinfectant</td>
</tr>
<tr>
<td>EPA Registration Number</td>
<td>10324-81-72802</td>
</tr>
</tbody>
</table>

**Distributor**
Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

**Chemical Emergency Phone Number**
800-424-9300 (Chemtrec)

**Company Emergency Phone Number**
800-444-4138

## 2. HAZARDS IDENTIFICATION

### Emergency Overview
Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear, Colorless to straw colored liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Benzaldehyde (Organic)</td>
</tr>
</tbody>
</table>

### Potential Health Effects

#### Acute toxicity

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Causes burns and may result in permanent injury to eyes including blindness.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.</td>
</tr>
</tbody>
</table>

#### Chronic Effects

None known.

#### Aggravated Medical Conditions

See Section 12 for additional Ecological Information.
This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl Decyl Dimethyl Ammonium Chloride</td>
<td>32426-11-2</td>
<td>2.00-4.00</td>
</tr>
<tr>
<td>1-Octanaminium, N,N-dimethyl-N-octyl-, chloride</td>
<td>5538-94-3</td>
<td>1.0-2.0</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>0.5-2.0</td>
</tr>
<tr>
<td>Alkyl (C12-16) dimethylbenzylammonium chloride</td>
<td>68424-85-1</td>
<td>2.00-4.00</td>
</tr>
<tr>
<td>Didecyldimethylammonium chloride</td>
<td>7173-51-5</td>
<td>1.0-2.0</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye contact**
Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

**Skin contact**
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

**Inhalation**
If symptoms are experienced, move victim to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion**
Call poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Notes to physician**
Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Not flammable

**Flash point Method**
None when heated to 100°C - Cleveland Open Cup

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Hazardous Combustion Products**
Irritating and toxic gases or fumes may be released during a fire.

**Explosion Data**
- Sensitivity to Mechanical Impact: none
- Sensitivity to Static Discharge: none

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**NFPA**
- Health Hazard: 0
- Flammability: 0
- Stability: 0
- Physical and chemical hazards -

**HMIS**
- Health Hazard: 3
- Flammability: 0
- Physical Hazard: 0
- Personal protection: B

### 6. ACCIDENTAL RELEASE MEASURES
Personal precautions
Ensure adequate ventilation

Environmental precautions
Try to prevent the material from entering drains or water courses

Methods for Containment
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Large Spills: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

Methods for cleaning up
Ventilate closed spaces before entering. All equipment used when handling the product must be grounded.
Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas.

7. HANDLING AND STORAGE

Advice on safe handling
KEEP OUT OF REACH OF CHILDREN Avoid contact with skin and eyes Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water

Technical measures/Storage conditions
Keep containers tightly closed in a cool, well-ventilated place Keep from freezing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Review Section 3 & 4 for Exposure Guidelines.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 1900 mg/m³</td>
<td>IDLH: 3300 ppm TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment Institutional Environment
Eye/Face Protection
Safety glasses are suggested when using this product in heavy use and institutional environments.

Consumer Environments
Care should be taken to avoid Eye contact.

Skin and body protection
Rubber gloves

Respiratory protection
Unnecessary in open institutional environment.

Hygiene measures
Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment
Eye/Face Protection
Splash-proof chemical goggles or face shield.

Skin and body protection
Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
Practice good personal hygiene. Wash after handling. Shower at end of work period Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, Colorless to straw colored liquid.</td>
<td>Odor</td>
<td>Benzaldehyde (Organic)</td>
</tr>
<tr>
<td>Color</td>
<td>Clear, colorless to straw colored</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-8.0</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td></td>
<td>None when heated to 100°C - Cleveland Open Cup.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.9905 (-8.26 lbs/gal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td></td>
<td></td>
<td>1.94MM2/s (cSt) @22°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>

9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening point</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content(%)</td>
<td>&lt;20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density VALUE</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk Density VALUE</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability                        | Stable          |               |                                              |
Incompatible products            | Strong oxidizing agents (may result in fire.), reducing agents. |
Conditions to Avoid              | Keep away from heat and strong oxidizing agents. |
Hazardous Decomposition Products | Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors. |
Hazardous Polymerization         | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute toxicity
**Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**LD50 Oral:**  
> 2,000 mg/kg in male and female rats.  
**LD50 Dermal:**  
> 200 thru 2,000 mg/kg in male and female rabbits.

**Eye contact**  
Corrosive.

**Skin contact**  
Corrosive

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>7060 mg/kg (Rat)</td>
<td></td>
<td>124.7 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Alkyl (C12-16) dimethylbenzylammonium chloride</td>
<td>426 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Didecyldimethylammonium chloride</td>
<td>84 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chronic toxicity**

Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

**Target Organ Effects**  
None known.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very Toxic to aquatic organisms. Information available upon request.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static</td>
<td>EC50 = 34634 mg/L 30 min</td>
<td>EC50 = 35470 mg/L 5 min</td>
<td>10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50</td>
</tr>
</tbody>
</table>

**Persistence and degradability**  
Product is biodegradable.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>0</td>
</tr>
</tbody>
</table>

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**

Do not re-use empty containers
14. TRANSPORT INFORMATION

Note

UN1903, Disinfectant liquid, Corrosive, n.o.s., 8, PG III

Dot

Proper shipping name

UN1903, Disinfectant liquid, Corrosive, n.o.s., 8, PG III

Hazard class

8

UN/ID No

UN1903

Packing Group

III

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

ICAO/IATA

Not regulated

IMDG / IMO

Not regulated

RID

Not regulated

ADR/RID

Not regulated

ADN

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

TSCA

Complies

NDSL

Complies

EINECS

Complies

ELINCS

-

ENCS

-

IECSC

Complies

KECL

Complies

PICCS

Complies

AICS

-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

SARA Title III, Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

SARA 311/312 Hazard Categories
Acute Health Hazard | no
Chronic Health Hazard | no
Fire Hazard | no
Sudden Release of Pressure Hazard | no
Reactive Hazard | no

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**
The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

- Ethanol: AZ, CA, CT, ID, MA, MN, NJ, PA, RI
- Benzyl Chloride (trace impurity < 10ppm): AZ, CA, CAP65C, IL, MA, MN, NJ, PA
- AZ - Arizona Ambient Air Quality Guidelines: MA - Massachusetts Right to Know List
- CT - Connecticut Hazardous Air Pollutants: MN - Minnesota Hazardous Substances List
- California Director's List of Hazardous Substances: CA –
- CAP65C - California Prop 65 Reproductive Toxin: PA - Pennsylvania Right to Know List
- ID - Idaho Non-carcinogen Toxic Air Pollutants: RI - Rhode Island Hazardous Substances List
- IL - Illinois Toxic Air Contaminant - Carcinogenic

**International Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td></td>
<td>Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m³</td>
</tr>
</tbody>
</table>

**Canada**
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**
- E  Corrosive material
- D2B  Toxic materials
16. OTHER INFORMATION

Prepared By: Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

Issuing date: 13-Oct-2011
Revision Date: 25-Nov-2011
Revision Note: No information available

Disclaimer:
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet