Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Sani Kleen

Product code: 41760-32OZ
UN/ID No: NA1903

Recommended Use: Disinfectant

EPA Registration Number: 1839-83-72802

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
This product contains substances which at their given concentration, are considered to be hazardous to health.


Potential Health Effects

Acute toxicity

Eyes: Contact can cause severe damage with redness, irritation and tearing.
Skin: Direct contact with skin can cause severe irritation.
Inhalation: Irritating to respiratory system Burning pain in mouth or throat
Ingestion: Burning pain in mouth, throat, abdomen, severe swelling larynx, skeletal muscle paralysis affecting breathing, circulatory shock or convulsions. May be fatal if swallowed.

Chronic Effects: No known effect based on information supplied

Aggravated Medical Conditions: Pre-existing eye, skin and respiratory disorders.

Environmental hazard: See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

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>Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>&lt;9</td>
</tr>
<tr>
<td>Alkyl (60% C14, 30% C16,5% C12, 5% C18) Dimethyl Benzyl Ammonium Chloride</td>
<td>53516-76-0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>85409-23-0</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye contact**
Flush with large amounts of running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

**Skin contact**
Remove contaminated clothing immediately. Wash clothes before rewearing. Wash exposed area with soap & water. Seek medical attention.

**Inhalation**
Remove to fresh air. Seek medical attention if symptoms persist.

**Ingestion**
Drink promptly, a large quantity of water. Seek immediate medical attention or contact poison control center.

**Notes to physician**
Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Not flammable

**Flash point**
N/A

**Suitable Extinguishing Media**
Water Fog, Foam, CO2 or Dry Chemical.

**Hazardous Combustion Products**
Toxic hydrogen chloride, oxides of carbon & nitrogen.

**Explosion Data**

<table>
<thead>
<tr>
<th>Sensitivity to Mechanical Impact</th>
<th>none</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>none</td>
</tr>
</tbody>
</table>

**Sensitivity to Static Discharge**

<table>
<thead>
<tr>
<th>Protective Equipment and Precautions for Firefighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid is soluble in water &amp; easily diluted.</td>
</tr>
</tbody>
</table>

**NFPA**
Health Hazard 2  Flammability 0  Stability 0  Physical and chemical hazards -

**HMIS**
Health Hazard 2  Flammability 0  Physical Hazard 0  Personal protection -

### 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**
Transfer contaminated absorbent, soil and other materials to containers for disposal

**Methods for cleaning up**
Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal.
7. HANDLING AND STORAGE

Advice on safe handling  
KEEP OUT OF REACH OF CHILDREN  
Open containers slowly to relieve any pressure  
Empty containers may contain product residue.  
All safety precautions taken when handling this product should also be taken when handling  
empty drums and containers

Technical measures/Storage conditions  
Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition.

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>Sodium metasilicate 6834-92-0</td>
<td></td>
<td>2mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Measures**  
Shower  
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

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>Colorless Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>colorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Floral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>11.8-0.3</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

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upper flammability limit
lower flammability limit

Explosion Limits
upper
lower

Vapor pressure
Vapor density
Specific Gravity
Water solubility
Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidizing Properties

9.2 Other information
Softening point
Molecular Weight
VOC Content(%)
Density VALUE
Bulk Density VALUE

10. STABILITY AND REACTIVITY

Stability
Stable

Incompatible products
Strong Oxidizers

Conditions to Avoid
High Temperatures

Hazardous Decomposition Products
Toxic hydrogen chloride, oxides of carbon & nitrogen.

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>3384 mg/kg (Rat)</td>
<td>2700 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>600 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Target Organ Effects
None known.

12. ECOLOGICAL INFORMATION
Ecotoxicity
The environmental impact of this product has not been fully investigated

<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>Diethylene glycol monobutyl ether</td>
<td>100: 96 h Desmodesmus subspicatus mg/L EC50</td>
<td>1300: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td></td>
<td>2850: 24 h Daphnia magna mg/L EC50, &gt;100: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>216: 96 h Daphnia magna mg/L EC50</td>
<td></td>
<td></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
Disinfectant, Corrosive, Liquids, (Contains Quaternary Ammonium Compounds), 8, NA1903, PG III

Dot
Proper shipping name
Regulated Disinfectant, Corrosive, Liquids, (Contains Quaternary Ammonium Compounds), 8, NA1903, PG III

Hazard class
8

UN/ID No
NA1903

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
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).

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.

U.S. State Right-to-Know Regulations

International Regulations

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.

16. OTHER INFORMATION

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

Issuing date: 13-Oct-2011
Revision Date: 13-Oct-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