Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Lemon Kleen Disinfectant

Product code: 41762-1

UN/ID No: NA 1903

Recommended Use: Disinfectant

EPA Registration Number: 1839-103-72802

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:
Contains quaternary ammonium compounds

Appearance: Thin Liquid
Physical state: liquid.
Odor: Lemon

Potential Health Effects:

Acute toxicity:
- Eyes: Contact can cause severe damage with redness, irritation and tearing.
- Skin: Severe Irritation
- Inhalation: Respiratory irritation on repeated contact.
- Ingestion: 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 material is not 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>
</table>

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C12-14-16-18 alkylbenzylidimethylammonium chloride | 68391-01-5 | 1.60
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 85409-23-0 | 1.60

### 4. FIRST AID MEASURES

**Eye contact**
Flush with large amounts of cool 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. Launder before rewearing. Wash exposed area with soap & water. Seek medical attention.

**Inhalation**
Move to fresh air. Get medical attention if irritation persists.

**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**
Flash point >200 °F

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

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

**Specific hazards arising from the chemical**
Do not cut containers with a torch as explosion may result.

**Protective Equipment and Precautions for Firefighters**
Liquid is soluble in water & easily diluted.

**NFPA**
- Health Hazard: 1
- Flammability: 0
- Stability: 0
- Physical and chemical hazards -

**HMIS**
- Health Hazard: 1
- 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: As with any chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices. Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty 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.

**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.
- **Respiratory Protection**:Unnecessary in open institutional environent.
- **Skin and body protection**: Rubber gloves
- **Hygiene measures**: Practice good personal hygiene. Wash after handling.

**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><strong>Physical state</strong></td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Thin Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Lemon</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>10.7 +/- 3</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Freezing Point</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>&gt;200 °F</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability Limits in Air</strong></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>
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</tr>
<tr>
<td><strong>Explosion Limits</strong></td>
<td></td>
<td></td>
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</tbody>
</table>
9.2 Other information

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

10. STABILITY AND REACTIVITY

Stability
Incompatible products
Conditions to Avoid
Hazardous Decomposition Products
Hazardous Polymerization

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Product Information

Chronic toxicity

Target Organ Effects

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS
Waste Disposal Methods

Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

Note

Disinfectant, Liquids, Corrosive, (Contains Quaternary Ammonium Compounds), 8, NA 1903, PG III Consumer Commodity, ORM-D

Dot

Proper shipping name

Not regulated

Disinfectant, Liquids, Corrosive, (Contains Quaternary Ammonium Compounds), 8, NA 1903, PG III

Hazard class

8

UN/ID No

NA 1903

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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>TSCA</td>
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<tr>
<td>DSL</td>
<td>-</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>Complies</td>
</tr>
<tr>
<td>ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>-</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>-</td>
</tr>
<tr>
<td>PICCS</td>
<td>-</td>
</tr>
<tr>
<td>AICS</td>
<td>-</td>
</tr>
</tbody>
</table>

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
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

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: 11-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