SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name
Other means of identification
SDS #
Product Code
Recommended use of the chemical and restrictions on use
Recommended Use
Details of the Supplier of the Safety Data Sheet
Supplier Address
Emergency Telephone Number
Company Phone Number
Emergency Telephone Number

2. HAZARDS IDENTIFICATION

Classification
Skin corrosion/irritation
Serious eye damage/irritation
Signal Word
Danger
Hazard Statements
Causes skin irritation.
Causes serious eye damage.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves and eye protection.

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or physician.
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice.

Hazards not otherwise classified (HNOC)
Unknown Acute Toxicity
May be harmful if swallowed.
1.5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance
Physical State
Odor
Red liquid
Liquid
Fresh odor.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>didecyldimethylammonium chloride</td>
<td>7173-51-5</td>
<td>&lt;6%</td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride (C12-16)</td>
<td>68424-85-1</td>
<td>&lt;4%</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>&lt;2%</td>
</tr>
</tbody>
</table>

In the concentrations in this formulation, the ingredients listed below are considered to be non-hazardous according to OSHA 1910.1200:
- water (CAS# 7732-18-5),
- C9-11 pareth-6 (CAS# 68439-46-3),
- tetrasodium EDTA (CAS# 64-02-8),
- citric acid (CAS# 77-92-9),
- trace fragrance and colorant added.

4. FIRST AID MEASURES

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or physician.

Skin Contact
Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice.
Inhalation
Remove to fresh air.

Ingestion
Do not induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed
Symptoms
May be harmful if swallowed. Small, unit dose pouch size would require the ingestion of multiple pouches to reach the dangerous level. In concentrated form, causes skin irritation and serious eye damage.

Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical, CO₂ or water spray.

Unsuitable Extinguishing Media
Not determined.

Specific hazards arising from the chemical
None known.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions
Use personal protective equipment as described in Section 8 of this Safety Data Sheet.

Environmental precautions
See Section 12 of this Safety Data Sheet for additional ecological information.

Methods and material for containment and cleaning up
Methods for containment
Concentrated materials are packed in unit-dosed pouches limiting any spills to very small quantities.

Methods for cleaning up
Paper toweling or mopping is usually sufficient.

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Foods contaminated by germicides should be discarded and utensils, etc. should be rinsed with potable water before use. Avoid contact with skin, eyes or clothing. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities
Storage conditions
Keep containers in a dry, cool and well-ventilated place. Do not store near heat or open flame.

Incompatible materials
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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>citric acid</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>IDLH: 3300 ppm</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>15 mg/m³ (Total)</td>
<td>TWA: 1900 mg/m³</td>
<td>TWA: 1000 ppm</td>
</tr>
</tbody>
</table>

Appropriate engineering controls
Engineering Controls
Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear protective glasses when mixing product.

Skin and body protection
Wear gloves when mixing product.

Respiratory protection
Provide adequate ventilation.

General Hygiene Considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical State
Liquid

Appearance
Red liquid

Color
Red

Odor
Fresh odor

Odor Threshold
Not determined
property | value | remarks method
--- | --- | ---
pH | 6 - 8 | 
melting point/freezing point | < -17.8 °C / <0 °F | 
boiling point/boiling range | not determined | 
flash point | not determined | 
evaporation rate | not determined | 
flammability (solid, gas) | not determined | 
flammability limits in air | not determined | 
upper flammability limit | not determined | 
lower flammability limit | not determined | 
vapor pressure | not determined | 
vapor density | not determined | 
specific gravity | 1.002 – 1.006 (1=Water) | completely soluble | 
solubility in other solvents | not determined | 
partition coefficient | not determined | 
autoignition temperature | not determined | 
decomposition temperature | not determined | 
kinesis viscosity | not determined | 
dynamic viscosity | not determined | 

10. STABILITY AND REACTIVITY
reactivity | not reactive under normal conditions | 
chemical stability | stable under recommended storage conditions | 
possibility of hazardous reactions | none under normal processing | 
conditions to avoid | strong oxidizing agents, reducing agents | 
incompatible materials | strong oxidizing agents, reducing agents | 
hazardous decomposition products | if heated to decomposition, CO, CO₂ & NOₓ may be produced | 

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
eye or skin contact, ingestion or inhalation.

Component Information

<table>
<thead>
<tr>
<th>chemical name</th>
<th>oral LD50 (rat)</th>
<th>dermal LD50</th>
<th>inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>didecylmethylammonium chloride 7173-51-5</td>
<td>84 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1</td>
<td>426 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C9-11 pareth-6 68439-46-3</td>
<td>&gt;1400 mg/kg (rat) = 1378 mg/kg (rat)</td>
<td>&gt;2 g/kg (rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>ethyl alcohol 64-17-5</td>
<td>7060 mg/kg (rat)</td>
<td>= 124.7 mg/L (rat) 4 h</td>
<td></td>
</tr>
<tr>
<td>citric acid 77-92-9</td>
<td>3000 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

symptoms | see section 4. |

delayed and immediate effects as well as chronic effects from short and long-term exposure

carcinogenicity | ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage. |

numerical measures of toxicity - product
not determined.

12. ECOLOGICAL INFORMATION

ecotoxicity | toxic to aquatic life with long lasting effects. |

Component Information
SFSPl® Germicidal Detergent

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol 64-17-5</td>
<td></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>9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>citric acid 77-92-9</td>
<td>-</td>
<td>1516: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>-</td>
<td>120: 72 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Not determined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>Not determined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobility</td>
<td>Not determined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Partition Coefficient</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethyl alcohol 64-17-5</td>
<td>-0.32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid 77-92-9</td>
<td>-1.72</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>Not determined.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Dispose of in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Dispose of in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status
ethyl alcohol: Toxic, ignitable.

14. TRANSPORT INFORMATION

DOT: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>dicetyldimethylammonium chloride</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride (C12-16)</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

US Federal Regulations

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

US State Regulations

California Proposition 65
This product does not contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol 64-17-5</td>
<td>carcinogen, developmental</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>HMIS</td>
<td>Health hazards</td>
<td>Flammability</td>
<td>Physical hazards</td>
<td>Personal Protection</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>0</td>
<td>0</td>
<td>A</td>
</tr>
</tbody>
</table>

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Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet