SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name: SFSPac® Sanitizer
Other means of Identification
SDS # : 1600-Concentrate
Product Code: SFS16, SFS17, SFS18
Registration Number: 1839-86-8722
Recommended use of the chemical and restrictions on use
Recommended Use: EPA Registered Sanitizer
Details of the Supplier of the Safety Data Sheet
Supplier Address: PortionPac Chemical Corporation
400 N. Ashland Avenue
Chicago, IL 60622-6382
www.portionpaccorp.com
Emergency Telephone Number
Company Phone Number: Phone: 312-226-0400
Fax: 312-226-5400
Emergency Telephone Number: INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

This product is registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-EPA registered chemicals. See Section 15 for EPA information.

Classification
Product as sold
Skin corrosion/irritation: Category 2
Serious eye damage/irritation: Category 1
Product in use dilution
Does not have hazards as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product.

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.

Other Hazards
Toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>alkyl dimethyl ethylbenzyl ammonium chloride</td>
<td>85409-23-0</td>
<td>1-10%</td>
</tr>
<tr>
<td>n-alkyl (C12-16)-n, n-dimethyl-n-benzyl ammonium chloride</td>
<td>68391-01-5</td>
<td>1-10%</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>&lt;5%</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), amines, C12-18-alkyldimethyl (CAS# 68391-04-8).

4. FIRST AID MEASURES

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
Measures that are appropriate to circumstances and the surrounding environment.
Unsuitable Extinguishing Media
Not determined.
Specific hazards arising from the chemical
Not determined.
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
Avoid contact with skin, eyes or clothing. Wash hands and any exposed skin thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities
Storage conditions
Store locked up.
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>ethyl alcohol</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>(vacated) TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1900 mg/m3</td>
<td>TWA: 1900 mg/m3</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Transparent light pink</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>transparent</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh odor</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7 – 9</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>173 °F (78.3 °C)</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>103 °F (39.4 °C)</td>
<td></td>
</tr>
</tbody>
</table>
Evaporation rate Not determined.
Flammability (solid, gas) Not applicable.
Flammability Limits in Air
  Upper flammability limits Not determined.
  Lower flammability limit Not determined.
Vapor pressure Not determined.
Vapor density Not determined.
Specific Gravity Not determined. (1=Water)
Water solubility Completely soluble.
Solubility in other solvents Not determined.
Partition coefficient Not determined.
Autoignition temperature Not determined.
Decomposition temperature Not determined.
Kinematic 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 Keep out of reach of children.
Incompatible materials None known.
Hazardous Decomposition Products None known.

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</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>= 124.7 mg/L (Rat) 4 h</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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity - Product
ATEmix (oral) 4,960.00 mg/kg  ATEmix (dermal) 11,000.00 mg/kg  ATEmix (inhalation-dust/mist) 11,035.40 mg/L

12. ECOLOGICAL INFORMATION
Ecotoxicity Toxic to aquatic life with long lasting effects.
Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static</td>
<td>10800: 24 h Daphnia magna mg/L EC50 12: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50</td>
</tr>
</tbody>
</table>

Persistence and degradability Not determined.
Bioaccumulation Not determined.
Mobility

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

Other adverse effects Not determined.

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

<table>
<thead>
<tr>
<th>DOT</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

#### International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL.NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>quaternary ammonium</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-alkyl (C12-16)-n, n-dimethyl, n-benzyl ammonium chloride</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Amines, (C12-15) alkylidimethyl</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

#### US Federal Regulations

**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).

**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.

**CWA (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).

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals. The ethyl alcohol referred to in Proposition 65 is EDF-026 – "ethyl alcohol in alcoholic beverages”

**U.S. State Right-to-know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

#### U.S. EPA Label Information

**EPA Reg. No. 1839-86-8722**

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and workplace labels of non-pesticides. Following is the EPA required hazard information:

**Signal Word:** Danger

Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

#### HMIS

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

**Issue Date**

01-March-2017

**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**