Anionic Surfactant Additive

SAFETY DATA SHEET

Preparation Date: 25-Jul-2008       Revision Date: 27-Jun-2017       Revision Number: 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Name: Anionic Surfactant Additive

Other means of identification
Item#: 1925
Synonyms: None

Recommended use of the chemical and restrictions on use
Recommended use: Surfactant
Uses advised against: All other

Details of the supplier of the safety data sheet
Supplier: DeLaval Cleaning Solutions
11100 N. Congress Ave.
Kansas City, MO 64153
Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number
Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification
Skin Corrosion/Irritation: Category 2
Serious eye damage/eye irritation: Category 1

Label Elements

Emergency Overview

DANGER

Hazard Statements
Causes skin irritation
Causes serious eye damage

Appearance: Clear
Physical state: Liquid
Odor: Mild, Soapy

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

Precautionary Statements - Response
Specific treatment (see First Aid on this label)

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 doctor/physician.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Precautionary Statements - Storage
Store away from incompatible materials.

Precautionary Statements - Disposal
Dispose of contents/container in accordance with local regulation

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts</td>
<td>68081-81-2</td>
<td>30 - 40</td>
</tr>
<tr>
<td>Sodium xylene sulfonate</td>
<td>1300-72-7</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first-aid measures**

**Eye contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Skin contact**
Wash off immediately with plenty of water. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

**Inhalation**
Move to fresh air. Get medical attention if symptoms occur.

**Ingestion**
Rinse mouth. Get medical attention immediately if symptoms occur.

**Most important symptoms and effects, both acute and delayed**
Severe eye irritation. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Corrosive to the eyes and may cause severe damage including blindness. May cause skin irritation.

**Indication of any immediate medical attention and special treatment needed**
Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Not applicable, Non-combustible.

**Unsuitable Extinguishing Media**
Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

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

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Material can create slippery conditions. For personal protection see section 8.

Environmental Precautions
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up
Miscible with water. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Prevent product from entering drains. After cleaning, flush away traces with water. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Ensure adequate ventilation. Wear personal protective equipment. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities
Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures above 7°C / 45°F. Store away from incompatible materials.

Incompatible Materials
strong oxidizing agents, strong acids, strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Appropriate engineering controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection
Goggles.

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory Protection
In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or
smoke when using this product.

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>Clear</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, Soapy</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7 - 8</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>&gt; 100 °C / &gt; 212 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.08</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>soluble</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>300 1300 cP @ 25 deg C</td>
<td></td>
</tr>
</tbody>
</table>

Other information

Density

9.00 lb/gal

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
None known.

Conditions to Avoid
Incompatible Materials. Extremes of temperature and direct sunlight.

Incompatible Materials
strong oxidizing agents, strong acids, strong bases

Hazardous decomposition products
None known.

11. TOXICOLOGICAL INFORMATION

Principal Routes of Exposure
Eye contact, Skin contact, Ingestion, Inhalation

Information on likely routes of exposure

Eyes
Causes serious eye damage.

Skin
Irritating to skin.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
1925 Anionic Surfactant Additive

Inhalation

None known.

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

**Sensitization**
Product is not identified as a sensitizer according to OSHA regulations.

**Mutagenic effects**
Product is not identified as a mutagen according to OSHA regulations.

**Carcinogenicity**
Product is not identified as a carcinogen according to OSHA regulations.

**Reproductive Effects**
Product is not identified as having reproductive effects according to OSHA regulations.

**STOT - single exposure**
Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.

**STOT - repeated exposure**
Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.

**Aspiration Hazard**
Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity**
If available, toxicity values of individual components are shown below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts</td>
<td>438 mg/kg (rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>68081-81-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium xylene sulfonate</td>
<td>= 1000 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>1300-72-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>7757-82-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

42% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

**Ecotoxicity**
If available, ecotoxicity values of individual components are shown below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Microtox</th>
<th>Waterflea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td>No data available</td>
<td>13500 - 14500: 96 h Pimephales promelas mg/L</td>
<td>No data available</td>
<td>2564: 48 h Daphnia magna mg/L EC50 630: 96 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
Readily biodegradable.

**Bioaccumulation/Accumulation**
No information available.

**Other adverse effects**
No information available

13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**
Dispose of in accordance with local regulations.

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Contaminated Packaging
Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT
Not regulated

15. REGULATORY INFORMATION

State Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>Not Listed</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7757-82-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label information

EPA Pesticide registration number
Not applicable

16. OTHER INFORMATION

Preparation Date: 25-Jul-2008
Revision Date: 27-Jun-2017
Revision Note: None

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 a 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 SDS