MATERIAL SAFETY DATA SHEET

SODIUM LAURETH SULFATE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Laureth Sulfate
INCI Name: Sodium Laureth Sulfate
Company Address: 1133 Walter Price St
                Cayce, SC 29033

Emergency Telephone Number: Infotrac 1-800-535-5053

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>alpha-Alkyl (C10-16) omega-hydroxypoly (oxyethylene) sulfate, sodium salt</td>
<td>68585-34-2</td>
<td>25-29</td>
<td>-</td>
</tr>
<tr>
<td>Alcohols, C10-16, ethoxylated</td>
<td>68002-87-1</td>
<td>0-1.5</td>
<td>-</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>&lt;1</td>
<td>-</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>68.5-75</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview: Irritant

Potential Health Effects:
- Eyes: Contact with eyes may cause irritation.
- Skin: Substance may cause slight skin irritation.
- Inhalation: May cause irritation of respiratory tract.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects: No information available

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Ingestion: Drink plenty of water. Do not induce vomiting without medical advice. Consult a physician.
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5. FIRE-FIGHTING MEASURES

Flammable Properties Non-flammable water solution.
Flammable Limits Not Determined.

SPECIAL FIRE FIGHTING PROCEDURES

Method Water mist may be used to cool closed containers.

Unusual Fire & Explosive Hazards None

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<tr>
<td>alpha-Amyl (C10-16).omega-hydroxypropoxy(oxyethylene) sulfate, sodium salt</td>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>68.5-75</td>
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</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURE

Small Spillages Recover all usable material. Soak up balance with sand or dirt. Material is slippery on wet or hard surfaces.
Large Spillages In case of a large spill by truck, use small spill procedure and a vacuum truck. Call CHEMTREC at 1-800-424-9300.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing.
Storage Containers should be stored at temperatures between 40 °F and 100 °F.

8. EXPOSURE CONTROLS I PERSONAL PROTECTION

Engineering measures Ensure adequate ventilation, especially in confined areas
Eye/Face Protection Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.
Skin Protection Wear protective gloves/clothing.
Respiratory Protection No special protective equipment required.

Component ACGIH TLV OSHA PEL OSHA PEL (Ceiling) OSHA PEL - Skin Notations
Alcohols, C10-16, ethoxyalted

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range 100°C
Vapor Pressure No data available
Volatile Weight % 68.5-75 Water Solubility Soluble in all proportions
Specific Gravity 1.04 pH 7-9 Odor Mild detergent odor Appearance Colorless
Odor to pale yellow Physical State Liquid
10. STABILITY AND REACTIVITY

Chemical Stability  Stable under normal conditions.

Unsuitable Materials  Strong acids. Strong oxidizing agents.

Conditions to Avoid  Strong oxidizers. Do not mix with strong acid solutions or temperatures >150 °F.

Hazardous Decomposition Products  None under normal use

Hazardous Polymerization  No information available

11. TOXICOLOGICAL INFORMATION

<table>
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<tr>
<th>Component</th>
<th>LD50</th>
<th>Oral LC50 Inhalation</th>
<th>LD50 Dermal</th>
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<tbody>
<tr>
<td>Sodium sulfate</td>
<td>10000 mg/kg (Rat)</td>
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</tbody>
</table>

Eyes  
Eye Irritation

Skin  
Skin Irritation

Ingestion  
Unknown

Inhalation  
Unknown

Chronic Toxicity  
No information available

Carcinogenicity  
Product is not listed.

Hazard Type  
Skin/Eye Irritant

12. ECOLOGICAL INFORMATION

<table>
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<tr>
<th>Component</th>
<th>Freshwater Algae</th>
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<th>Microtox</th>
<th>Water Flea</th>
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</thead>
<tbody>
<tr>
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<td></td>
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|  | EC50 = 2564 mg/L 48 h | EC50 = 4547 mg/L 96 h |

Ecotoxicity effects  
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Chemical Fate  
Material is readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods  
Dispose of contents/container in accordance with local regulation.
14. TRANSPORT INFORMATION

DOT Not regulated
ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated
RID Not regulated
ADR Not regulated
ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
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USA

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 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any HAPs.

CANADA

WHMIS Classification: D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Revision Date 06/25/2014

Prepared by Jonathan L. McIntosh

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.

06/25/2014