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>68002-97-1</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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Contact with eyes may cause irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>Substance may cause slight skin irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause irritation of respiratory tract.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</td>
</tr>
</tbody>
</table>

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.
MATERIAL SAFETY DATA SHEET

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.

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 & 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, ethoxylated

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 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>
<thead>
<tr>
<th>Component</th>
<th>LD50</th>
<th>Oral LC50 Inhalation</th>
<th>LD50 Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>10000 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</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>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>EC50 = 2564 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EC50 = 4547 mg/L 96 h</td>
</tr>
</tbody>
</table>

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>
<th>ENCS</th>
<th>CHINA</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
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<tbody>
<tr>
<td>.alpha.-Alkyl (C10-16) .omega.-hydroxy(poly(oxyethylene)) sulfate, sodium salt</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
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</table>

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
WHIMIS 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