MATERIAL SAFETY DATA SHEET

Sodium Olefin Sulfonate

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sodium Olefin Sulfonate
Company Address: Rustic Escentuals, 1050 Canaan Road, Roebuck, SC 29376 USA
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>Sulfonic acids. C14-16-alkane hydroxy and C14-16-alkene, sodium salts</td>
<td>68439-57-6</td>
<td>36-42</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride (NaCl)</td>
<td>7647-14-5</td>
<td>0-1</td>
<td>-</td>
</tr>
<tr>
<td>Sodium sulfate (solution)</td>
<td>7757-82-6</td>
<td>0-1</td>
<td>-</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>56-64</td>
<td>-</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

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.
5. FIRE-FIGHTING MEASURES

Flammable Properties Flammable
Non-flammable water solution.

Limits Hazardous Combustion
Not Determined. Oxides of carbon and sulfur.

Products SPECIAL FIRE FIGHTING
Water mist may be used to cool closed containers. Water spray. Carbon dioxide (CO2). Foam.

PROCEDURES Method Suitable
Dry chemical.

Extinguishing Media
None

Unusual Fire & Explosive Hazards

6. ACCIDENTAL RELEASE MEASURES

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 INFOTRAC at 1-800-535-5053.

7. HANDLING AND STORAGE

Handling
Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Storage
Containers should be stored at temperatures between 50°F and 100°F.

8. EXPOSURE CONTROLS IPERSONAL 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, unless workers are exposed to concentrations above the exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range
100 °C

Vapor Pressure Volatile
25 mm Hg @ 25°C

Weight % Water
56-64

Solubility
Soluble in all proportions

Specific Gravity
1.05 7-9

pH
Slight

Odor Appearance
Yellow Amber

Physical State
Liquid
10. STABILITY AND REACTIVITY

- **Chemical Stability**: Stable under normal conditions.
- **Unsuitable Materials**: Strong oxidizing agents.
- **Conditions to Avoid**: Strong oxidizers.
- **Hazardous Decomposition Products**: None under normal use
- **Hazardous Polymerization**: No information available

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LC50 Inhalation</th>
<th>LD50 Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonic acids, C14-16-alkane, hydroxy and C14-16-alkene, sodium salts</td>
<td>2310 mg/kg (Rat)</td>
<td>6300 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate (solution)</td>
<td>10000 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Eye Irritation**: Unknown
- **Skin Irritation**: Unknown
- **Ingestion**: Unknown
- **Inhalation**: Unknown
- **Chronic Toxicity**: No information available
- **Carcinogenicity**: Product is not listed.
- **Hazard Type**: Skin/Eye Irritant.

12. ECOLOGICAL INFORMATION

- **Sodium chloride**: EC50 = 1000 mg/L 48 h
- **Sodium sulfate (solution)**: 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

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>
</thead>
<tbody>
<tr>
<td>Sulfonic acids, C14-16-alkane hydroxy and C14-C16 alkene, sodium salts</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>
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<tr>
<td>Sodium chloride (NaCl)</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>
<tr>
<td>Water</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

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

Revision Date 08/10/2018

Disclaimer
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