## CAUTIONARY RESPONSE INFORMATION

### Common Synonyms

Sodium hydrogen alkyl sulfate

### Solid or thick liquid

Pale yellow

Faint detergent odor

Mixes with water. Soap bubbles may be produced.

### Not flammable.

### CALL FOR MEDICAL AID.

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### Liquid or Solid

IRRITATING TO SKIN AND EYES.

If swallowed, will cause nausea or vomiting.

Flush exposed areas with plenty of water.

### NOT FLAMMABLE.

### retractable

### CALL FOR MEDICAL AID.

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### Notify local health and pollution control agencies.

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### CAUTIONARY RESPONSE INFORMATION

1. **CORRECTIVE RESPONSE ACTIONS**
   - Dilute and disperse
   - Stop discharge
   - Notify local health and wildlife officials.
   - Notify operators of nearby water intakes.

2. **CHEMICAL DESIGNATIONS**
   - CG Compatibility Group: Not listed
   - IMO/UN Designation: Not listed
   - DOT ID No.: Not listed
   - CAS Registry No.: Not listed
   - Standard Industrial Trade Classification: Not listed

3. **HEALTH HAZARDS**
   - Personal Protective Equipment: Goggles or face shield; rubber gloves.
   - Symptoms Following Exposure: In general, these chemicals have a moderate order of toxicity. Repeated skin contact with concentrated solutions may cause dermatitis. Ingestion may cause gastrointestinal irritation, vomiting, and diarrhea.
   - Treatment of Exposure: INGESTION: induce vomiting and follow with gastric lavage. SKIN: wash off with water.
   - TLV-TWA: Not listed
   - TLV-STEL: Not listed
   - Toxicity by Ingestion: Grade 2; LD50 =0.5 to 5 g/kg
   - Toxicity by Inhalation: Currently not available
   - Chronic Toxicity: None
   - Vapor (Gas) Irritant Characteristics: Non-volatile
   - Odor Threshold: Currently not available
   - OSHA PEL-TWA: Not listed
   - OSHA PEL-STEL: Not listed
   - OSHA PEL-Ceiling: Not listed
   - ACGIH TLV: Not listed
   - NFPA Hazard Classification: Not listed
   - Hazchem Class: Not listed
   - Hazchem Subclass: Not listed
   - REACH: Not pertinent

4. **FIRE HAZARDS**
   - Flash Point: Not flammable
   - Fire Extinguishing Agents: Not flammable
   - Fire Extinguishing Agents Not to Be Used: Not pertinent
   - Special Hazards of Combustion: Products: Not pertinent
   - Behavior in Fire: May produce irritating vapors.
   - Auto Ignition Temperature: Not flammable
   - Electrical Hazards: Not pertinent
   - Burning Rate: Not flammable
   - Adiabatic Flame Temperature: Currently not available
   - Stoichiometric Air to Fuel Ratio: Not pertinent
   - Flame Temperature: Currently not available
   - Molar Ratio (Reactant to Product): Not pertinent
   - Minimum Oxygen Concentration for Combustion (MOC): Not listed

5. **CHEMICAL REACTIVITY**
   - Reactivity with Water: No reaction
   - Reactivity with Common Materials: No reaction
   - Stability During Transport: Stable
   - Neutralizing Agents for Acids and Caustics: Not pertinent
   - Polymerization: Not pertinent
   - Inhibitor of Polymerization: Not pertinent

6. **WATER POLLUTION**
   - Aquatic Toxicity: 6.7 ppm/8h/m/1000/m/5/hr/4/3
   - Waterfowl Toxicity: Currently not available
   - Biological Oxygen Demand (BOD): (theor) 60%, 5 days
   - Food Chain Concentration Potential: None
   - GESAMP Hazard Profile: Not listed

7. **SHIPPING INFORMATION**
   - Grades of Purity: Vary with each manufacturer and with intended use. Some is shipped as a thick concentrated water solution, some as a solid often mixed with other solids such as sodium phosphate. Ordinary household detergents are good examples of this substance.
   - Storage Temperature: Ambient
   - Inert Atmosphere: No requirement
   - Venting: Open
   - IMO Pollution Category: Currently not available
   - Ship Type: Currently not available
   - Barge Hull Type: Currently not available

8. **HAZARD CLASSIFICATIONS**
   - 49 CFR Category: Not listed
   - CFR Class: Not pertinent
   - CFR Package Group: Not listed
   - Marine Pollutant: No
   - NFPA Hazard Classification: Not listed
   - EPA Reportable Quantity: Not listed
   - EPA Pollution Category: Not listed
   - RCRA Waste Number: Not listed
   - EPA FWPCA List: Not listed

9. **PHYSICAL & CHEMICAL PROPERTIES**
   - Physical State at 15° C and 1 atm: Liquid or solid
   - Molecular Weight: Not pertinent
   - Boiling Point at 1 atm: Decomposes
   - Freezing Point: Not pertinent
   - Critical Temperature: Not pertinent
   - Critical Pressure: Not pertinent
   - Specific Gravity: Currently not available
   - Liquid Surface Tension: Not pertinent
   - Liquid Water Interfacial Tension: Not pertinent
   - Vapor (Gas) Specific Gravity: Not pertinent
   - Ratio of Specific Heats of Vapor (Gas): Not pertinent
   - Heat of Vaporization: Not pertinent
   - Heat of Combustion: Not pertinent
   - Heat of Decomposition: Not pertinent
   - Heat of Solution: Not pertinent
   - Heat of Polymerization: Not pertinent
   - Heat of Fusion: Currently not available
   - Limiting Values: Currently not available
   - Reid Vapor Pressure: Currently not available

### NOTES

- **JUNE 1999**

- **SODIUM ALKYL SULFATES**

- **SAS**

- **JUNE 1999**

- **SODIUM ALKYL SULFATES**

- **SAS**

- **JUNE 1999**

- **SODIUM ALKYL SULFATES**

- **SAS**

- **JUNE 1999**
### SODIUM ALKYL SULFATES

#### 9.20 SATURATED LIQUID DENSITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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#### 9.21 LIQUID HEAT CAPACITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound°F</th>
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#### 9.22 LIQUID THERMAL CONDUCTIVITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit inch per hour-square foot°F</th>
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#### 9.23 LIQUID VISCOSITY

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<th>Temperature (degrees F)</th>
<th>Centipoise</th>
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#### 9.24 SOLUBILITY IN WATER

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<th>Temperature (degrees F)</th>
<th>Pounds per 100 pounds of water</th>
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<td>VERY</td>
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<td>SOLUBLE</td>
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#### 9.25 SATURATED VAPOR PRESSURE

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<th>Temperature (degrees F)</th>
<th>Pounds per square inch</th>
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#### 9.26 SATURATED VAPOR DENSITY

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<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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#### 9.27 IDEAL GAS HEAT CAPACITY

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