Material Safety Data Sheet

1. Product Information

Chemical Description: Sodium cocoyl sarcosinate
Synonyms: Cocoyl sarcosine, sodium salt

2. Composition

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Percent (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>67-71</td>
</tr>
<tr>
<td>Sodium cocoyl sarcosinate</td>
<td>61791-59-1</td>
<td>29-31</td>
</tr>
<tr>
<td>Sodium coconate</td>
<td>61789-31-9</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Ratings (HMIS)
Health: 2  Flammability: 1  Reactivity: 0  Personal Protective Equipment:
Chemical Resistant Gloves
Safety/Splash Goggles
Synthetic Apron

Primary Route of Exposure: Skin contact and inhalation

Health Effect Information
- **Eye Contact:** Product is irritating to the eyes.
- **Skin Contact:** Product is irritating to skin.
- **Inhalation:** Heated vapor may irritate the respiratory tract.
- **Ingestion:** None known.

Medical Conditions Aggravated by Exposure: Persons with pre-existing skin or respiratory disorders.

4. FIRST AID MEASURES

Skin contact: Remove contaminated clothing and flush area with large quantities of water. If irritation persists, seek medical attention.

Inhalation: Remove to fresh air, support breathing as necessary. Seek medical attention if breathing difficulty develops.

Eye contact: Rinse with large amounts of water for 15 minutes. Seek medical attention immediately.

Ingestion: Induce vomiting if patient is conscious. Do not induce vomiting in an unconscious person. Seek medical attention immediately.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties
- **Flash Point:** >250°F
- **Flammable Limits in Air**
  - Upper Limits: Not Determined
  - Lower Limits: Not Determined
- **Autoignition Temperature:** Not Determined

Test Method:
- Flash Point: PMCC
- Flammable Limits in Air: N/A
- Autoignition Temperature: N/A
Suitable extinguishing media: Material does not burn, it decomposes. Use Carbon Dioxide, Dry Chemical Powder, or Appropriate Foam.

Unsuitable extinguishing media: Water spray will cause material to foam.

Unusual Fire and Explosion Conditions: None, material may present a slip hazard when spilled.

Required special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Hazardous Combustion By-Products: Carbon Monoxide, Carbon Dioxide and Nitrogen Oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear goggles and gloves. Respiratory protection in not required unless heated vapors are present. Material may present a slip hazard when spilled.

Environmental precautions: Do not allow material to enter streams or sewers.

Methods for cleaning: Scoop material into containers. Water spray will cause the material to foam.

7. HANDLING AND STORAGE

Handling: Persons handling this material must adhere to training criteria in USDOT 49CFR172.700. Safety shower and eye wash stations should be available. Keep area well-ventilated. Wash thoroughly after handling. Avoid prolonged skin contact.

Storage: Store in a cool, dry, well-ventilated area. Do not store in areas where the temperature is less than 40°F or greater than 100°F. Keep containers securely closed.

8. EXPOSURE CONTROLS

Engineering measures: Local, mechanical exhaust is adequate for storage areas and simple mixing operations. Hoods should be considered when mist or heated vapor is present.

Respiratory Protection: Not normally required. If heated vapor is present use a full-face organic vapor air purifying respirator.

Eye protection: Safety/Splash Goggles

Hand protection: Compatible chemical resistant gloves.

Other Protective Clothing or Equipment: Optional, use apron where splashing occurs.

Hygiene measures: Wash thoroughly after handling. Safety shower and eye wash station should be provided in the workplace.

Exposure Limits: None established for listed components.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid

Odor: None

pH (10% solution): 7.5-8.5

Vapor Pressure: Same as water

Boiling point: 212°F (100 °C)

Melting point: N/A

Vapor Density: Same as water

Specific Gravity (H2O): 1.02-1.03
Solubility: Miscible  Evaporation Rate: Same as water

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: N/A
Materials to avoid: None Known
Hazardous decomposition products: None (see Section 5)
Hazardous Polymerization: Will not occur.

11. TOXOLOGICAL INFORMATION (will only print available data)

Primary Eye Irritation: May cause irritation.
Primary Skin Irritation: May cause skin irritation.
Acute Dermal Toxicity: Dermal irritation.
Subacute Dermal Toxicity: N/A
Dermal Sensitization: N/A
Inhalation Toxicity: May cause respiratory tract irritation when heated vapors or mists are present.
Inhalation Sensitization: N/A
Oral Toxicity: Not known
Carcinogenity: NTP? No  IARC Monographs? No  OSHA Regulated? No
Mutagenicity: No data available.
Reproductive Toxicity: No data available.
Teratogenicity: No data available.
Immunotoxicity: No data available.
Neurotoxicity: No data available.
Other:

No other toxicological information available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available.
Terrestrial Toxicity: No data available.
Chemical Fate and Transport: No data available.

No other ecological information available.

13. DISPOSAL INFORMATION

Regulatory Information: This material is not a federal hazardous waste according to U.S. EPA regulations found at 40 CFR 261.

Waste Disposal Methods: Contact a licensed professional waste disposal service for incineration or solidification of this material. Rinse empty drums to insure no flammable residue remains. Do not pressurize, cut, weld, brace, solder, drill, grind, or expose empty containers to heat. “Empty” drums should be completely drained, bunged, and returned to a drum reconditioner.
14. TRANSPORTATION INFORMATION

US DOT 49 CFR 172.101 Proper shipping name and number: Chemical, n.o.s.,
US DOT 49 CFR 172.101 Hazard Class or Division: N/R
US DOT 49 CFR 172.101 and Subpart E labeling requirements: N/R
US DOT 49 CFR 172.101 Packing authorizations:
  UN Number: N/R
  Non-Bulk Packaging: N/R
  Bulk Packaging: N/R
US DOT 49 CFR 172.101 Quantity Limitations:
  Passenger Aircraft or Railcar: N/R
  Cargo Aircraft Only: N/R

Air Transport IATA/ICAO: Chemical, n.o.s.,
  UN/ID Number: N/R
  IATA/ICAO Class: N/R
  Packing Group: N/R
  Label: N/R
  Packing Instruction: N/R

Maritime Transport
  IMDG Technical Name: Chemical, n.o.s.,
  UN/ID Number: N/R
  IMDG Class: N/R
  Packing Group: N/R
  Subsidiary Risk Label: N/R
  Marine Pollutant: N/R

15. REGULATORY INFORMATION

Regulatory Lists
U.S. TSCA Inventory: All components of this product are listed on the TSCA inventory.
SARA Section 313: This product contains the following SARA, Title III, Section 313 Chemicals:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Percent in Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
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</tbody>
</table>

SARA 311/312 Categories
Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No
Not Regulated: No

Other Regulations: Material is listed on the Canadian Domestic Substance List, European EINECS, and Australian AICS.
16. OTHER INFORMATION

Disclaimer: The information contained herein is based upon data and information available to Surfactants, Inc., and reflects our best professional judgement. This information is furnished upon the condition that the person receiving it shall make his/her own determination of the suitability of the material for his/her particular use.