SAFETY DATA SHEET

1. Identification

Product identifier: Tallow Traditional Taurus Soap Base
Other means of identification: Not available.
Recommended use: Cleansing product
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Company name: The Original Bradford Soap Works, Inc.
Address: 200 Providence Street
West Warwick, RI 02893
Telephone: 401-821-2141
E-mail: draymond@bradfordsoap.com / pyoung@bradfordsoap.com
Contact person: Dave Raymond / Philip Young
Emergency phone number: 401-821-2141

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements

Hazard symbol: None.
Signal word: None.
Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement

Prevention: Observe good industrial hygiene practices.
Response: Wash hands after handling.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium tallowate</td>
<td>8052-48-0</td>
<td>60 - 70</td>
</tr>
<tr>
<td>Sodium palm kernelate OR</td>
<td>61789-31-9 OR 61789-89-7</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Sodium cocoate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Pentasodium pentetate</td>
<td>140-01-2</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Tetrasodium etidronate</td>
<td>3794-83-0</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures

Inhalation
Dust: Move to fresh air. Call a physician if symptoms develop or persist. Solid: No specific first aid measures noted.

Skin contact
Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Carbon dioxide, dry chemical or water.

Unsuitable extinguishing media
None.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Use water spray to cool unopened containers.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product.

Methods and materials for containment and cleaning up
Sweep up and place into a proper container for disposal. Small quantities may be flushed to drains with plenty of water. Solid material: Pick up mechanically.

Environmental precautions
No special environmental precautions required.

7. Handling and storage

Precautions for safe handling
Observe good industrial hygiene practices. Wash hands after contact.

Conditions for safe storage, including any incompatibilities
Keep away from moisture.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin (CAS 56-81-5)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

<table>
<thead>
<tr>
<th>Eye/face protection</th>
<th>Wear safety glasses with side shields (or goggles).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin protection</td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td>Gloves are not required.</td>
</tr>
<tr>
<td>Other</td>
<td>Wear appropriate chemical resistant clothing.</td>
</tr>
</tbody>
</table>
Respiratory protection
Wear a NIOSH-approved (or equivalent) respirator as needed.

Thermal hazards
Not applicable.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9. Physical and chemical properties

Appearance
Physical state
Solid.
Form
Color
White to off-white.
Odor
Characteristic.
Odor threshold
Not available.
pH
9.5 - 10.5
Melting point/freezing point
Not available.
Initial boiling point and boiling range
Not available.
Flash point
Not applicable.
Evaporation rate
Not available.
Flammability (solid, gas)
Not available.
Upper/lower flammability or explosive limits
Flammability limit - lower (%)
Not applicable.
Flammability limit - upper (%)
Not applicable.
Vapor pressure
Not available.
Vapor density
Not available.
Relative density
1.04 @ 25°C
Solubility(ies)
Solubility (water)
100 % Completely soluble
Partition coefficient (n-octanol/water)
Not available.
Auto-ignition temperature
Not applicable.
Decomposition temperature
Not available.
Viscosity
Not applicable.
Other information
Flammability
Not applicable.

10. Stability and reactivity

Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability
Stable.
Possibility of hazardous reactions
Hazardous polymerization will not occur.
Conditions to avoid
None.
Incompatible materials
None.
Hazardous decomposition products
None.

11. Toxicological information

Information on likely routes of exposure
Ingestion
May cause discomfort if swallowed.
Inhalation
Inhalation of dusts may cause respiratory irritation. Solid bars: No adverse effects due to inhalation are expected.
Skin contact
Prolonged skin contact may cause temporary irritation.
Eye contact
Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride (CAS 7647-14-5)</td>
<td>Mouse</td>
<td>4000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
</tr>
<tr>
<td>Other</td>
<td>Mouse</td>
<td>2602 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization
Not classified.

Skin sensitization
This product is not expected to cause skin sensitization.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Due to the physical form of the product it is not an aspiration hazard.

Further information
None known.

12. Ecological information

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentasodium pentetate (CAS 140-01-2)</td>
<td>Fish</td>
<td>LC50 Bluegill (Lepomis macrochirus) 1005 - 1250 mg/l, 96 hours</td>
</tr>
<tr>
<td>Aquatic</td>
<td>LC50</td>
<td>Water flea (Daphnia magna) 340.7 - 469.2 mg/l, 48 hours</td>
</tr>
<tr>
<td>Sodium chloride (CAS 7647-14-5)</td>
<td>Aquatic</td>
<td>EC50</td>
</tr>
<tr>
<td>Crustacea</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) 6020 - 7070 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
No data available for this product.

Partition coefficient n-octanol / water (log Kow)
Glycerin (CAS 56-81-5) -1.76

Mobility in soil
The product is soluble in water.

Other adverse effects
None known.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations
Dispose in accordance with all applicable regulations.
Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
US. Massachusetts RTK - Substance List
Glycerin (CAS 56-81-5)

US. New Jersey Worker and Community Right-to-Know Act
Glycerin (CAS 56-81-5)

US. Pennsylvania Worker and Community Right-to-Know Law
Glycerin (CAS 56-81-5)

US. Rhode Island RTK
Not regulated.
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>04-June-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>-</td>
</tr>
<tr>
<td>Version #</td>
<td>01</td>
</tr>
</tbody>
</table>

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.