# MATERIAL SAFETY DATA SHEET

## SULFATED CASTOR OIL

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>SULFATED CASTOR OIL (TURKEY RED OIL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Use:</td>
<td>Personal Care Formulations</td>
</tr>
<tr>
<td>Company Name:</td>
<td>Natural Sourcing</td>
</tr>
<tr>
<td>Company Address:</td>
<td>341 Christian Street, Oxford, CT 06478, USA</td>
</tr>
<tr>
<td>Date Issued:</td>
<td>02/02/2010</td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>Chemtrec Tel: (800) 262–8200</td>
</tr>
</tbody>
</table>

### 2. COMPOSITION/INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>Ingredients:</th>
<th>SULFATED CASTOR OIL (TURKEY RED OIL) 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Definition:</td>
<td>Sulfated castor oil is a reaction product of 96% sulfuric acid with castor oil, with a starting acid concentration of 20%</td>
</tr>
<tr>
<td>Hazardous Components:</td>
<td>None</td>
</tr>
<tr>
<td>CAS #:</td>
<td>8002–33–3</td>
</tr>
</tbody>
</table>

### 3. HAZARDS IDENTIFICATION

Xi: Irritant

<table>
<thead>
<tr>
<th>Routes of Entry</th>
<th>Eye Contact:</th>
<th>Skin Contact:</th>
<th>Chronic Exposure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact:</td>
<td>Irritating to eyes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Contact:</td>
<td>Irritating to skin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Exposure:</td>
<td>No information</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eyes:**
Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.

**Skin:**
Wash with soap and water– get medical attention if irritation persists.

**Ingestion:**
Rinse mouth with water. Seek medical advice immediately.

**Inhalation:**
Remove to fresh air. Seek medical attention if irritation occurs.

**Medical Conditions Generally Aggravated by Exposure:**
None

### 5. FIRE FIGHTING MEASURES

**Flash Point (Method Used):**
> 300˚C, in dry residue

**Auto Ignition Temperature:**

**Flammable Limits:**

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6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Precautions: Avoid inhalation of vapor and direct contact with eyes and skin. Use individual protective clothing. Ventilate area. Prevent entry into waterways. Absorb onto an inert, absorbent substrate and sweep up. Do not use combustible materials, such as saw dust. Wash area with soap and water to prevent slip/fall hazard.

Methods for Cleaning Up:
Ventilate area. Prevent entry into waterways. Absorb onto an inert, absorbent substrate and sweep up. Do not use combustible materials, such as saw dust. Wash area with soap and water to prevent slip/fall hazard.

7. HANDLING AND STORAGE

Handling
Apply good manufacturing practice and industrial hygiene practices, ensure proper ventilation. Do not eat, drink or smoke during handling. Keep away from fire and open flames. Protect from freezing.

Safe Handling:

Storage
Requirements for Storage Areas and Containers: Store in a cool, dry location, in a sealed container. Minimize contact with air and exposure to light. Take precautions to avoid static discharges in working area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eye: Safety glasses should be worn.
Skin/Body: Gloves and protective clothing should be worn.
Respiratory: Use adequate ventilation or NIOSH-approved respiratory devices.
Ventilation: A mechanical exhaust/ventilation or fume collection system may be used if deemed necessary according to application.
Other: Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

Work/Hygiene Practice: Normal work and hygiene practices for handling non-hazardous liquid material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Clear, amber yellow
Odor: Characteristic, fatty
pH: (10% solution) 8.0–9.5
Acid Value: 3.0–9.0

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage
Incompatibility (Materials to Avoid): Avoid contact with flames, strong acids, alkali or oxidizers.
Hazardous Decomposition or Byproducts: Liable to cause smoke and acrid fumes during combustion; CO, CO2 and trace oxides of sulphur and other non identified organic compounds may be formed.
Conditions to Avoid: Excessive heat or freezing
Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Exposure: No data available
LD50/LC50: No data available
Medical Conditions Generally Aggravated by Exposure: None
Irritancy: Skin: Irritant
Eyes: Irritant
Carcinogenicity: No Data
Reproductive Toxicity: No Data
Teratogenicity: No Data
Mutagenicity: No Data
Name of toxicologically synergistic products: N/A

12. ECOLOGICAL INFORMATION

Biodegradation: Readily degrades
Fish Toxicity: No Data
Bacterial Toxicity: No Data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not put into sewer lines. Dispose of according to local, state and federal regulations.

14. TRANSPORT INFORMATION

ADR/RID: N/A
IATA/ICAO: N/A
IMDG: N/A

15. REGULATORY INFORMATION

Hazards: Irritant
Symbols: Xi
Risk Phrases: R36/38: Irritating to eyes and skin
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.