Section 1. Identification

Product Identifier: Rubber Roof Cleaner
Product Use: Vehicle maintenance
Manufacturer: Thetford Corporation
7101 Jackson Road
Ann Arbor, MI 48103
Emergency Numbers:
(734) 769-6000
(800) 424-9300 (CHEMTREC - 24 hours)

Section 2. Hazards Identification

Classification: Eye Damage/Irritation - Category 1  Skin Sensitization - Category 1

Hazard Pictograms:

Signal Word: DANGER
Hazard Statements: Causes serious eye damage. May cause an allergic skin reaction.
Precautionary Statements: Wear eye protection and protective gloves. Avoid breathing mist. Contaminated work clothing must not be allowed out of the workplace.
Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
Disposal Dispose of contents and container in accordance with all local regulations.

Section 3. Composition/Information on Ingredients

Mixture of the following ingredients with non hazardous additions.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Wt%</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkylpolyglucoside solution</td>
<td>5</td>
<td>NA- Mixture</td>
</tr>
<tr>
<td>Alkyl Sulfate</td>
<td>1.20</td>
<td>NA - Mixture</td>
</tr>
<tr>
<td>Hydroxyphenyl-benzotriazole</td>
<td>0.22</td>
<td>NA - Mixture</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

First Aid Measures
Inhalation: Remove from contaminated area if irritation occurs.
Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Irrigate eyes for a minimum of 15 minutes. Get medical attention immediately.
Ingestion: Do not induce vomiting. Drink 2 glasses of water. Contact a physician.

Potential Acute Health Effects
Inhalation: No data available.
Skin Contact: May cause an allergic skin reaction.
Eye Contact: Causes serious damage.
Ingestion: Nontoxic if ingested.

Potential Chronic Health Effects: None known.

Section 5. Fire-Fighting Measures

Extinguishing Media: Water, dry chemical, carbon dioxide or foam
Specific hazards arising from the chemical: Hazardous decomposition products formed under fire conditions.

Hazardous thermal decomposition products: Oxides of carbon, nitrogen and oxides of sulfur

Special protective actions for fire-fighters: None

Special protective equipment for fire-fighters: None

**Section 6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Wear safety glasses and rubber gloves. Eliminate sources of ignition.

**Method and materials for containment and clean up**

Clean up small spills with water. Soak up larger spills with absorbent material. Place used absorbent in closed containers for disposal. Mop the area with plenty of cold, clean water. Dispose of in accordance with federal, state, and local regulations.

**Section 7. Handling and Storage**

Precautions for safe handling: Keep away from heat and sources of ignition. Avoid contact with eyes and skin. Wash thoroughly after handling. Spilled material may be slippery.

Conditions for safe storage: Store below 100°F (38°C). Do not freeze.

**Section 8. Exposure Control/Personal Protection**

**Occupational Exposure Limits**

**Appropriate Engineering Controls** Maintain adequate ventilation.

**Personal Protection**

Respiratory Protection: Not required for properly ventilated areas

Skin Protection: Rubber gloves

Eye/Face Protection: Safety glasses or goggles

Hygiene Measures: Wash hands thoroughly after handling especially before eating, drinking and smoking. Wash contaminated clothing before reuse. Have eyewash and safety shower available.

**Section 9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper/Lower Explosive Limits:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor:</td>
<td>Detergent</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.014</td>
</tr>
<tr>
<td>pH:</td>
<td>8.5 - 9.5</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Completely soluble</td>
</tr>
<tr>
<td>Freezing Point:</td>
<td>32°F (0°C)</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water:</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>210°F (99°C)</td>
</tr>
<tr>
<td>Flash Point (RTCC):</td>
<td>&gt;200°F (&gt;93°C)</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>None, like water</td>
</tr>
</tbody>
</table>

**Section 10. Stability and Reactivity**

Reactivity: No information available

Chemical Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: No information available

Conditions to Avoid: Storage below 32°F or above 100°F for extended periods.

Incompatible Materials: Strong acids, bases and oxidizing agents

Hazardous Decomposition Products: Oxides of carbon, nitrogen and oxides of sulfur

**Section 11. Toxicological Information**

Information on the likely routes of exposure: Dermal contact. Eye contact. Ingestion.

**Potential Acute Health Effects**

- **Inhalation:** Not an inhalation hazard.
- **Skin Contact:** May cause an allergic skin reaction.
- **Eye Contact:** Causes serious eye damage.
- **Ingestion:** Nontoxic if ingested.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics**

- **Inhalation:** Not available.
- **Skin Contact:** May cause itchiness if left on skin.
- **Eye Contact:** Irritating with burning and tearing.
- **Ingestion:** Not available.

**Potential Chronic Health Effects**

**Short Term Exposure**
- Potential immediate effects: Not available

**Long Term Exposure**
- Potential delayed effects: Not available
- **General:** Not available
- **Carcinogenicity:** Ingredients not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
- **Mutagenicity:** No known significant effects or critical hazards.
- **Teratogenicity:** No known significant effects or critical hazards.
- **Developmental Effects:** No known significant effects or critical hazards.
- **Fertility Effects:** No known significant effects or critical hazards.

**Information on Toxicological Effects**

**Acute Toxicity**
- Eye contact is corrosive.

**Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LD50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl Sulfate</td>
<td>&gt;2,000 mg/kg</td>
<td>&gt;2,000 mg/kg</td>
<td>&gt;5.8 mg/l (14 days)</td>
</tr>
<tr>
<td>Hydroxyphenyl-benzotriazole</td>
<td>&gt;2,000 mg/kg</td>
<td>&gt;5,000 mg/kg (rat)</td>
<td>&gt;5,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**
- **Respiratory sensitization:** No known significant effects or critical hazards.
- **Skin sensitization:** No known significant effects or critical hazards.
- **Carcinogenicity:** Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
- **Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- **Reproductive Toxicity:** No known significant effects or critical hazards.
Specific target organ toxicity - single exposure: No known significant effects or critical hazards.

Aspiration hazard Not an aspiration hazard

Acute toxicity estimates (ATE)

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;47,000 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological Information

Toxicity Not toxic to aquatic organisms.

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>LC50 Fish</th>
<th>EC50 Daphnia magna</th>
<th>EC50 Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl Sulfate</td>
<td>&gt;1 - ≤10 mg/l (Leuciscus idus)</td>
<td>&gt;1 - ≤10 mg/l</td>
<td>&gt;10 ≤ 100 mg/l (Scenedesmus subspicatus)</td>
</tr>
<tr>
<td>Hydroxyphenyl-benzotriazole</td>
<td>2.8 mg/l</td>
<td>3.8 mg/l</td>
<td>&gt;9 mg/l</td>
</tr>
<tr>
<td>Alkylpolyglucoside solution</td>
<td>10 - 100 mg/l 72 h (Desmodesmus subspicatus)</td>
<td>10 - 100 mg/l 48 h</td>
<td>&gt;10 - 100 mg/l</td>
</tr>
</tbody>
</table>

Persistence and Degradability: Organic ingredients are biodegradable

Bioaccumulative Potential: No bioaccumulation expected

Mobility in Soil: Not available

Other Adverse Effects: No information available

Section 13. Disposal Considerations

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Waste disposal should be in accordance with existing federal, state, and local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

UN Number: Not Regulated Hazard Class: Not applicable

UN Proper Shipping Name: Not applicable Packing Group: Not applicable

Environmental Hazard: No

Section 15. Regulatory Information

SARA 311/312: Immediate acute health hazard

SARA Title III Section 313 EHS: None

SARA Title III Section 313 Toxic: None

Section 16. Other Information

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Version: 2