Section 1. Identification

Product Identifier: Protect All Rubber Roof Cleaner
Product Use: RV 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
Hazard Pictograms: 
Signal Word: DANGER
Hazard Statements: Causes serious eye damage.
Precautionary Statements: 
Prevention: Wear eye protection.
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.

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>Ethoxylated Alcohol</td>
<td>0.4</td>
<td>68439-46-3</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>0.4</td>
<td>1310-73-2</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: Not a skin irritant.
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. Store away from strong bases and oxidizing agents.

Section 8. Exposure Control/Personal Protection

Occupational Exposure Limits

Sodium Hydroxide
OSHA TWA: 2mg/m3  ACGIH: 2 mg/m3 Ceiling

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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Flowery</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>10.5 - 11</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>32°F (0°C)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td>Flash Point (RTCC):</td>
<td>&gt;200°F (&gt;93°C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/Lower Explosive Limits:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.02</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Completely soluble</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water:</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>Not available</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 oxidizing agents
Section 11. Toxicological Information

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

Potential Acute Health Effects

Inhalation: Not an inhalation hazard.
Skin Contact: Not a skin irritant.
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>Ethoxylated Alcohol</th>
<th>LD50 Oral</th>
<th>&gt;2000 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>LD50 Oral</td>
<td>None</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 data available to indicate product or any components present at greater than 0.1% present reproductive hazards.
Specific target organ toxicity - single exposure: No known significant effects or critical hazards.
Aspiration hazard Not an aspiration hazard

Section 12. Ecological Information

Toxicity
Not toxic to aquatic organisms.

Components
### Ethoxylated Alcohol

<table>
<thead>
<tr>
<th>Parameter</th>
<th>EC50 48h Daphnia</th>
<th>LC50/96h Fish</th>
<th>EC50/72h Algae</th>
<th>LC50 Fish/96h</th>
<th>LC50 Fish/48h</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 48h Daphnia</td>
<td>5 - 10 mg/l</td>
<td>5 - 10 mg/L</td>
<td>100 - 100 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50/96h Fish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50/72h Algae</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 Fish/96h</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 Fish/48h</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sodium Hydroxide

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LC50 Fish/96h</th>
<th>LC50 Fish/48h</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish/96h</td>
<td>125 mg/l (mosquito fish)</td>
<td></td>
</tr>
<tr>
<td>LC50 Fish/48h</td>
<td>99 mg/l (bluegill sunfish)</td>
<td></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:** None

**SARA Title III Section 313 EHS:** None

**SARA Title III Section 313 Toxic:** None

### Section 16. Other Information

**Date of Issue:** 26-May-15  
**Prepared by:** Janis Thomson

**Date of previous issue:** 17-Mar-15  
**MSDS Number:** 50109

**Version:** 3