**GREEN ALL-PURPOSE DEGREASER**

1099

**Description**  
This ready-to-use degreaser contains components that are either approved on www.cleangredients.org (BIO-TERGE® PAS-8 and BIO-SOFT® N91-8) or on the U.S. EPA’s Safer Chemical Ingredients List (SCIL) and may be suitable as a starting point for U.S. EPA’s Safer Choice certification program. The BIO-SOFT® nonionics provide cleaning against greasy and oily soils, while the builder and chelant provide alkalinity and counter hard water deposits and soap scum. The solvent allows for soil penetration and softening. Green Your Clean using Stepan Ingredients!

**Formulation**  
**INGREDIENTS:**

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>Deionized Water</th>
<th>87.5</th>
<th>Carrier</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIO-TERGE® PAS-8S</td>
<td>6.0</td>
<td>Hydrotrope</td>
</tr>
<tr>
<td>Phase 2</td>
<td>BIO-SOFT® N91-8</td>
<td>2.0</td>
<td>Cleansing Agent</td>
</tr>
<tr>
<td>Phase 3</td>
<td>Sodium Carbonate</td>
<td>2.0</td>
<td>Builder</td>
</tr>
<tr>
<td></td>
<td>Butyl Carbitol™ Solvent (Dow Chemical) Diethylene Glycol Monobutyl Ether</td>
<td>2.0</td>
<td>Solvent</td>
</tr>
<tr>
<td>Phase 4</td>
<td>Enviomet™ EDDS (Innospec) [S,S]-Ethylenediaminedisuccinic acid</td>
<td>0.5</td>
<td>Chelating Agent</td>
</tr>
<tr>
<td></td>
<td>Fragrance, Preservative, and Dye</td>
<td>q.s.</td>
<td>Additives</td>
</tr>
</tbody>
</table>

**Total**  
100.0

**Procedure**
1. Charge water and BIO-TERGE® PAS-8S.
3. Add Sodium Carbonate, followed by Butyl Carbitol™ Solvent and Enviomet™ EDDS.
4. Add Fragrance, Preservative and Dye as needed.
5. Mix until homogenous.

**Physical Properties**
- **Appearance at 25°C**  
  Clear, colorless liquid
- **pH, as is**  
  10-11
- **Viscosity at 25°C, cps**  
  Water thin
- **% VOC**  
  <0.3

**Storage/Stability**
- **Freeze thaw, 3 cycles**  
  Pass
- **4 weeks at 50°C**  
  Stable
- **4 weeks at 25°C**  
  Stable
- **4 weeks at 4°C**  
  Stable

**Instructions**  
Spray on surface and wipe clean with paper towel or cloth.
Gardner Straightline Washability Test, SM 250-0 (ASTM D4488-95-A5); as is = 98% soil removed.

Marketing Notes: Green refers to the use of ingredients that are considered favorable by the U.S. EPA Safer Choice standard (https://www.epa.gov/saferchoice/safer-choice-standard). U.S. EPA’s Safer Chemical Ingredient List (SCIL) can be found at https://www.epa.gov/saferchoice/safer-ingredients. The manufacturer is responsible for the use of other “Green” ingredients, as defined herein, including but not limited to Preservative, Fragrance, and Dye. Formulation is VOC compliant with U.S. Federal and all State VOC standards for Non-aerosol General Purpose Degreasers as of January 2019. BIO-SOFT® EC-690, BIO-SOFT® EC-639, BIO-SOFT® N91-6, BIO-SOFT® N1-7, and BIO-SOFT® N-900 can be substituted for BIO-SOFT® N91-8, if desired. They are all approved ingredients on www.cleangredients.org. This formulation does not contain nonylphenol ethoxylates (NPEs) (excluding applicable additives).

BIO-TERGE®
BIO-SOFT®