GREEN TUB AND TILE CLEANER

No. 1126

All the ingredients in this soap-scum-remover formulation are either approved on www.cleangredients.org (AMMONYX® LO and BIO-SOFT® EC-690) or in the EPA’s Safer Chemical Ingredients List (SCIL), which may make it suitable for EPA’s Safer Choice certification. This low-VOC bathroom cleaner contains solvent for soil penetration, a mild acid for removal of soap scum, hard water stains, and lime scale, and nonionic surfactants for grease cutting, surface wetting, and overall cleaning performance. Green Your Clean using Stepan Ingredients!

**Formulation INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>91.9</td>
<td>Diluent</td>
</tr>
<tr>
<td>AMMONYX® LO</td>
<td>3.0</td>
<td>Cleansing Agent</td>
</tr>
<tr>
<td>DOWANOL™ PnB Glycol Ether (Dow Chemical) Propylene</td>
<td>1.0</td>
<td>Solvent</td>
</tr>
<tr>
<td>Glycol n-Butyl Ether</td>
<td>1.1</td>
<td>Cleansing Agent</td>
</tr>
<tr>
<td>BIO-SOFT® EC-690</td>
<td>q.s.</td>
<td>pH Modifier</td>
</tr>
<tr>
<td>Citric Acid, anhydrous</td>
<td>q.s.</td>
<td>Additives</td>
</tr>
<tr>
<td>Fragrance, Preservative, and Dye</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total**

|    | 100.0 |

**Procedure**

1. Charge Water and with good agitation.
2. Blend in AMMONYX® LO Special and DOWANOL™ PnB.
3. Continue agitation and slowly blend in BIO-SOFT® EC-690.
4. Add Citric Acid to adjust pH between 2 and 3.
5. Add Fragrance, Preservative and Dye as needed.
6. Mix until homogenous.

**Physical Properties**

- **Appearance at 25°C:** Clear liquid
- **pH, as is:** 2-3
- **Viscosity at 25°C, cps:** Water thin
- **Freeze thaw, 3 cycles:** Pass
- **4 weeks at 50°C:** Stable
- **4 weeks at 25°C:** Stable
- **4 weeks at 4°C:** Stable

**Storage/Stability**

**Instructions for Use**

Spray on soiled surface and allow product to penetrate. Wipe surface with wet sponge or cloth. Rinse with water.

For heavily soiled surfaces, let product penetrate for 4–5 minutes.

Lime soap dispersing power is comparable to commercial products.

**External Comment**

“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.
This formulation meets US Federal and all State Volatile Organic Compounds (VOC) standards for Bathroom and Tile Cleaners as of January 2019 (excluding additives). Use of the term “Green” on the finished product or label is at the sole risk of the finished product manufacturer, for which Stepan bears no responsibility. Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer. If desired, BIO-SOFT® N1-5, BIO-SOFT® N91-6, and BIO-SOFT® N-900 can be substituted for BIO-SOFT® EC-690 on an equal actives basis; also AMPHOSOL® HCG-HP, for AMMONYX® LO. These are all approved ingredients on www.cleangredients.org.

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.

The information contained herein is based on the manufacturer’s own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.