

# Formulation

Name	<b>GREEN TUB AND TILE CLEANER</b>	
No.	1126	
Description	All the ingredients in this soap-scum-remover formulation are either approved on <a href="http://www.cleangredients.org">www.cleangredients.org</a> (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	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>    <u>Functionality</u></b>
	Deionized Water	91.9 Diluent
	AMMONYX® LO	3.0 Cleansing Agent
	DOWANOL™ PnB Glycol Ether (Dow Chemical) Propylene Glycol n-Butyl Ether	1.0 Solvent
	BIO-SOFT® EC-690	1.1 Cleansing Agent
	Citric Acid, anhydrous	q.s. to pH = 2-3 pH Modifier
	Fragrance, Preservative, and Dye	q.s. Additives
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Water and with good agitation.</li> <li>2. Blend in AMMONYX® LO Special and DOWANOL™ PnB.</li> <li>3. Continue agitation and slowly blend in BIO-SOFT® EC-690.</li> <li>4. Add Citric Acid to adjust pH between 2 and 3.</li> <li>5. Add Fragrance, Preservative and Dye as needed.</li> <li>6. Mix until homogenous.</li> </ol>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	2-3
	Viscosity at 25°C, cps	Water thin
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 for Use	<p>Spray on soiled surface and allow product to penetrate. Wipe surface with wet sponge or cloth. Rinse with water.</p> <p>For heavily soiled surfaces, let product penetrate for 4–5 minutes.</p> <p>Lime soap dispersing power is comparable to commercial products.</p>	
External Comment	<p>“Green” refers to the use of ingredients that are considered favorable by the U.S. EPA Safer Choice standard (<a href="https://www.epa.gov/saferchoice/safer-choice-standard">https://www.epa.gov/saferchoice/safer-choice-standard</a>). U.S. EPA's Safer Chemical Ingredient List (SCIL) can be found at <a href="https://www.epa.gov/saferchoice/safer-ingredients">https://www.epa.gov/saferchoice/safer-ingredients</a>.</p>	

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](http://www.cleangredients.org).

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Additional  
Assistance

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.

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