



# Formulation

Name	<b>NATURALLY-DERIVED SPRAY AND WIPE CLEANER</b>	
No.	1208	
Description	This ready-to-use hard surface cleaner contains only ingredients based on bio-renewable resources. The combination of STEPANOL® anionic, BIO-SOFT® alkoxyates and STEPOSOL® amides incorporate surfactants and solvent-like properties into a single formulation for use in kitchens, bathrooms, restaurants, hotels, or anywhere general purpose cleaning is needed.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	97.8 Carrier
	STEPANOL® WA-EXTRA HP	1.2 Cleansing Agent
	BIO-SOFT® EC-690	0.5 Emulsifier, Cleansing Agent
	STEPOSOL® MET-10U	0.3 Surfactant/Solvent
	Sodium Citrate	0.2 Builder
	Citric Acid, anhydrous	q.s. to pH Adjuster
	Fragrance, Preservative and Dye	pH=6.5-7.5 Additives
		q.s.
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water.</li> <li>2. With good agitation, slowly blend in BIO-SOFT® EC-690.</li> <li>3. When clear, add STEPANOL® WA-EXTRA HP.</li> <li>4. Once blended, add Sodium Citrate.</li> <li>5. When dissolved, add STEPOSOL® MET-10U.</li> <li>6. Adjust pH to between 6.5 and 7.5 with Citric Acid.</li> <li>7. Add Fragrance, Preservative and Dye as needed.</li> <li>8. Mix until homogenous.</li> </ol>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	6.5-7.5
	Viscosity at 25°C, cps	Water thin
	VOC (calculated), %	0
Storage/Stability	Freeze/thaw, 3 cycles	Pass
	4 weeks at 50°C	Pass
	4 weeks at 4°C	Pass
	4 weeks at 25°C	Pass
Instructions for Use	Use as is. Spray onto surface and allow to penetrate 1–3 minutes, depending on soil load. Wipe surface clean with cloth or sponge.	
External Comment	Marketing Notes: "Naturally-derived" refers to the formulation being sourced from surfactants that are derived from bio-renewable sources. "Bio-renewable" is defined by Stepan as originating from animal, plant, or marine materials. STEPANOL® WA-EXTRA HP, BIO-SOFT® EC-690, and STEPOSOL® MET-10U have a Biorenewable Carbon Index (BCI) of 100, 46, and 83 respectively.	

For further information on Stepan's BCI, visit [www.stepan.com](http://www.stepan.com). The manufacturer is responsible for the use of other Naturally-derived ingredients, as defined herein, including but not limited to Preservative, Fragrance, and Dye. Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer, for which Stepan bears no responsibility. This formulation meets the California Air Resource Board (CARB) VOC regulation for non-aerosol general purpose cleaners (0.5% VOC limit as of December 31, 2012). For U.S. formulators, STEPOSOL® MET-10U is a low vapor pressure VOC (LVP-VOC), therefore its contribution to the VOC calculation is zero. STEPOSOL® MET-10U does not contribute to the VOC calculation because of its high boiling point and low vapor pressure. If desired, BIO-SOFT® EC-639 (BCI=42) can be substituted for BIO-SOFT® EC-690 on an equal actives basis also STEPOSOL® M-8-10 (BCI=82), for STEPOSOL® MET-10U.

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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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