



Formulation

Name	NATURALLY-DERIVED ALL-PURPOSE DEGREASER	
No.	1209	
Description	This ready-to-use cleaner contains ingredients based on bio-renewable resources. The combination of anionic and nonionic surfactants are effective in cleaning particulate, grimy soils as well as oily, greasy ones. The STEPOSOL® amides provide solvo-surfactant properties, helping to both clean and penetrate soils, eliminating the need for high-VOC solvents.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	89.6 Carrier
	STEPANOL® WA-EXTRA HP	7.0 Cleansing Agent
	BIO-SOFT® EC-690	1.2 Emulsifier, Cleansing Agent
	STEPOSOL® MET-10U	2.0 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.
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water. 2. With good agitation, slowly blend in BIO-SOFT® EC-690. 3. Once clear, add STEPANOL® WA-EXTRA HP. 4. When blended, add Sodium Citrate. 5. Once dissolved, add STEPOSOL® MET-10U. 6. Adjust pH to between 6.5 and 7.5 with Citric Acid. 7. Add Fragrance, Preservative and Dye as needed. 8. Mix until homogenous. 	
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. Biorenewable 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 . The manufacturer is responsible	

for the use of other Naturally-derived ingredients, as defined herein, including but not limited to Preservative, Fragrance, and Dye. 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 in addition STEPOSOL® M-8-10 (BCI=82) can also be substituted for STEPOSOL® MET-10U. label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer, for which Stepan bears no responsibility.

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For
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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Stepan 

Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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