



Formulation

Name	GREEN ALL-PURPOSE DEGREASER	
No.	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:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	87.5 Carrier
	BIO-TERGE® PAS-8S	6.0 Hydrotrope
	=== Phase 2 ===	
	BIO-SOFT® N91-8	2.0 Cleansing Agent
	=== Phase 3 ===	
	Sodium Carbonate	2.0 Builder
	Butyl Carbitol™ Solvent (Dow Chemical) Diethylene Glycol	2.0 Solvent
	Monobutyl Ether	
	=== Phase 4 ===	
	Enviomet™ EDDS (Innospec) [S,S]-Ethylenediaminedisuccinic acid	0.5 Chelating Agent
	Fragrance, Preservative, and Dye	q.s. Additives
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Charge water and BIO-TERGE® PAS-8S. 2. With good agitation, slowly blend in BIO-SOFT® N91-8. 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.	

for Use

Gardner Straightline Washability Test, SM 250-0 (ASTM D4488-95-A5); as is = 98% soil removed.

External
Comment

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).

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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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Revision Date: 04/02/2019 Publication Date: 08/20/2009 © 2019, Stepan Company. All rights reserved.