



Formulation

Name	HEAVY DUTY DEGREASER CONCENTRATE	
No.	1097	
Description	This low alkalinity water-based concentrated degreaser can be used full strength to remove the toughest grime and soils. It can be diluted up to a 1-to-24 ratio with water to clean oil and dirt from indoor and outdoor surfaces.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 === Deionized Water	40.5 Diluent
	=== Phase 2 === BIO-SOFT® N91-6 Dowanol PnB (Dow) Propylene Glycol n-Butyl Ether Triethanolamine	27.0 Wetting Agent, Emulsifier 9.0 Solvent 9.0 Solvent, pH Modifier
	=== Phase 3 === STEPANATE® SXS Enviomet™ EDDS (Innospec) [S,S]-Ethylenediaminedisuccinic acid	10.0 Hydrotrope 4.5 Chelating Agent
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Charge water. 2. With good agitation, slowly blend in BIO-SOFT® N91-6, DOWANOL® PnB, and Triethanolamine. 3. Once clear, add EDDS followed by STEPANATE® SXS. 4. Mix until homogenous. 	
Physical Properties	Appearance	Clear liquid
	pH, as is	8.5
	Viscosity	Water thin
	% VOC, as is	9
	% VOC at 1:24 dilution	<0.4
Storage/Stability	Freeze thaw, 3 cycles	Pass
	50°C, 1 month	Stable
	Cold storage, 4°C, 1 month	Stable
Instructions for Use	<p>Dilute before use. Saturate sponge or cloth and wipe surface clean. For extra tough greasy and grimy soils, use full strength.</p> <p>Gardner Straightline Washability Test, SM 250-0 (ASTM D4488-95-A5); 1:24 dilution = 95% soil removed; 1:32 dilution = 83% soil removed.</p>	
External Comment	<p>Marketing Notes: This formulation is VOC compliant with all US Federal and State VOC standards per the California Air Resource Board regulations for degreasers (as of July 2009).</p>	

BIO-SOFT® N91-6, STEPANATE® SXS, and Propylene Glycol n-butyl Ether are approved ingredients on www.cleangredients.org. This formulation does not contain nonylphenol ethoxylates (NPEs). Enviomet EDDS was used in this formulation as an environmentally-friendly alternative to ethylenediaminetetraacetic acid (EDTA).

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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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Stepan 

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

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