



Formulation

Name	INDUSTRIAL METAL CLEANER	
No.	1160	
Description	This water-soluble, heavy-duty cleaner removes tough stains, motor oil deposits, paint, and soil build-up from metal surfaces. This formulation uses a combination of solvent and surfactant that works quickly on metal surfaces. It can be used "as is" for heavy cleaning, or diluted for daily maintenance or spot removal.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	STEPOSOL® SC	30.0 Solvent
	STEPOSOL® M-8-10	30.0 Solvent
	BIO-TERGE® PAS-8S	20.0 Hydrotrope
	BIO-SOFT® EC-690	20.0 Emulsifier
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Combine STEPOSOL® SC and STEPOSOL® M-8-10, mixing vigorously. 2. Add BIO-TERGE® PAS-8S while mixing. 3. Add BIO-SOFT® EC-690. Mix until homogeneous. 	
Physical Properties	Appearance, as is	Clear liquid
	pH, as is	6.0
	Viscosity, as is	Water thin
	VOC% (calculated)	26%
Storage/Stability	4 weeks at 4°C	Stable
	4 weeks at 25°C	Pass
	4 weeks at 50°C	Pass
	Freeze/ thaw, 4 cycle	Pass
Instructions for Use	Apply "as is" to surface with a wet scour sponge. Let stand 3–5 minutes. For heavier soiled surfaces, let stand 5–8 minutes. Rinse with water. For lighter cleaning, mix 4 oz:1 gallon. Let solution stand for 2–3 minutes. Wipe surface with wet scour sponge. Rinse with water.	
External Comment	Marketing Notes: BCI = 79. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit www.stepan.com . This formulation does not meet the California Air Resource Board (CARB) VOC regulation for Consumer Products. "Consumer" is defined by CARB as any person who seeks, purchases, or acquires any consumer product for personal, family, household, or institutional use. BIO-SOFT® N91-6 may be used as a substitution for BIO-SOFT® EC-690.	
Registered Trademarks of Stepan Company	STEPOSOL® BIO-TERGE® BIO-SOFT®	
For	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or	

Additional
Assistance

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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