



# Formulation

Name	<b>LOW FILM / STREAK MULTI-PURPOSE CLEANER CONCENTRATE</b>	
No.	1320	
Description	This highly concentrated dilutable cleaner is designed to be effective on multiple non-porous surfaces and various soils. This flexibility is delivered through varying the dilution rates. At a 1:256 dilution, this concentrate can be used for neutral pH all-purpose and floor cleaning. For tougher tasks that require a mildly alkaline pH cleaning solution, the recommended dilution rates are 1:16 to 1:64. This formulation, when diluted and used according to directions, leaves hard surfaces clean with low streaking.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	Deionized Water	62.0 Diluent
	STEOL® CS-330	27.0 Surfactant
	BIO-SOFT® LFS-07	6.0 Surfactant
	Propylene Glycol n-Butyl Ether	5.0 Solvent
	Preservative, Fragrance, and Dye	q.s. Additives
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water.</li> <li>2. Start mixing and add Propylene Glycol n-Butyl Ether.</li> <li>3. Add BIO-SOFT® LFS-07.</li> <li>4. Add STEOL® CS-330.</li> <li>5. Lastly, add Preservative, Fragrance, and Dye as desired.</li> <li>6. Mix until homogeneous.</li> </ol>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, diluted 1:256	7 - 8
	pH, diluted 1:16 to 1:64	9 - 10
	pH, as is	11.0 - 11.5
	Viscosity at 25 °C, cps	Water thin
	VOC, as is (calculated), %	5.0
	Flash Point (PMCC), °F	230
Storage/ Stability	Freeze/Thaw, 3 cycles	Pass, Gentle Mixing on thawing required
	4 weeks at 50 °C	Stable
	4 weeks at 25 °C	Stable
	4 weeks at 4 °C	Stable
Instructions for Use	<p>For all-purpose and floor cleaning, dilute 1 part cleaner into 256 parts tap water, 0.5 oz/gallon. Apply to floor by mopping or spraying. For all-purpose cleaning, spray to cover soil and wipe dry. For tougher cleaning tasks, dilute 1:64 to 1:16, 2-4 oz/gallon. Apply to surface, rinse if desired, and wipe dry. Diluted cleaner should be used when made and not stored for later use.</p> <p>This formulation, when diluted 1:256 with Stepan 140 ppm hardness tap water, cleans equal to market leading multipurpose cleaners at their respective label dilution. This formulation has significantly better film/streak performance on glossy black ceramic tile versus the same market</p>	

External  
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leading multipurpose cleaners at their respective label dilution, using Stepan's proprietary method (SM250-A, Application 01, Quantitative Measurement of Filming/Streaking).

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Marketing Notes: Stepan's low film/streak nonionic technology helps this formula to provide good low film/streak on surfaces such as glossy dark ceramic without rinsing. The choice of surfactants avoids the need for sequestering agents. This formulation is compliant with all U.S. Federal and State VOC standards for general purpose cleaners at dilutions of 1:16 or greater as of July 2019.

STEOL®  
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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: 02/14/2020    Publication Date: 09/30/2019    © 2020, Stepan Company. All rights reserved.