



Formulation

Name	LOW FILM / STREAK MULTI-PURPOSE CLEANER CONCENTRATE WITH STEOL® OS-370 PLUS		
No.	1362		
Description	This highly-concentrated dilutable cleaner is designed to be effective on multiple non-porous surfaces and various soils. For neutral pH all-purpose and floor cleaning, recommended dilution level is 1:256, or 0.5 oz per gallon water. Tougher tasks requiring a mildly alkaline pH cleaning solution should use a dilution level of 1:16 to 1:64, or 2-8 oz per gallon water.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	Deionized Water	79.0	Diluent
	STEOL® OS-370 PLUS	9.0	Surfactant, Co-emulsifier
	BIO-SOFT® LFS-07	6.0	Surfactant, Cleansing Agent
	Propylene Glycol n-Butyl Ether	5.0	Solvent
	Preservative, Fragrance, and Dye	q.s.	Additives
	Total	100.0	
Procedure	1. Charge Deionized Water. 2. Start mixing and add Propylene Glycol n-Butyl Ether. 3. Add BIO-SOFT® LFS-07. 4. Add STEOL® OS-370 PLUS. 5. Lastly, add Preservative, Fragrance, and Dye as desired. 6. Mix until homogeneous. **While this formulation provides a starting point, it is up to the end manufacturer to ensure their formulations and products meet all application regulations, including the New York 1,4-dioxane concentration limits.		
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	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. 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 leading multipurpose cleaners at their respective label dilution, using Stepan's proprietary method (SM250-A, Application 01, Quantitative Measurement of Filming/Streaking).

External
Comment

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 April 2020. STEOL OS-370 PLUS has a maximum residual 1,4-dioxane level of 10 ppm on an as supplied basis.

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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 +33 476 505 100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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