



Formulation

Name	PREMIUM NATURALLY DERIVED LIQUID DISH DETERGENT	
No.	1354	
Description	More suitable to those formulators looking to use naturally derived surfactants, this formulation is 75% naturally derived. All Stepan ingredients noted in the formulation are eligible for U.S. EPA Safer Choice certification. Contact Stepan for further information.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	q.s. to 100 Carrier
	STEPANOL® WA-EXTRA HP	60.00 Primary Surfactant
	STEPANATE® SXS	7.80 Hydrotrope
	SDA-40B (190 proof)	1.00 Viscosity Adjuster
	STEOL® CS-270 C (or STEOL® CS-270 PLUS)	8.57 Primary Surfactant
	AMMONYX® LO	20.00 Secondary Surfactant
	Citric Acid	q.s. pH Adjuster
	Preservative, Dye, and Fragrance	q.s. Additives
	Total	_____
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water and add the STEPANOL® WA-EXTRA HP while mixing. 2. Add the STEPANATE® SXS and SDA-40B and mix until homogeneous. 3. Slowly add the STEOL® CS-270 C (or STEOL® CS-270 PLUS) and mix until homogeneous. 4. Add the AMMONYX® LO and mix until homogeneous. Check the pH. 5. Use Citric Acid to adjust the pH to between 7.5 - 9.5. 6. Add preservative, dye, fragrance and other additives and mix until homogeneous. <p>**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.</p>	
Physical Properties	Appearance at 25°C	Clear Liquid
	pH, as is	7.5 - 9.5
	Viscosity at 25°C, cps	750 - 1250
	Density at 25°C, g/mL	1.039
	Flash Point (PMCC), °C	>110
	Solids, weight %	34.0
Storage/Stability	Freeze/Thaw (2 cycles)	Pass
	4 weeks at 4°C	Pass
	4 weeks at Room Temperature	Pass
	4 weeks at 40°C	Pass
Instructions for Use	Squirt a small amount of detergent into sink and fill sink with warm/hot water. Alternatively, squirt a small amount of detergent onto damp sponge or washcloth.	
External Comment	Marketing Notes: STEOL CS-270 PLUS has a maximum residual 1,4-dioxane level of 10 ppm on an as-supplied basis. AMMONYX® LO, STEOL® CS-270 C, STEPANATE® SXS, STEPANOL® WA-EXTRA HP are currently listed on Cleangredients.org and meet the U.S. EPA Safer Choice	

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

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Stepan 

Stepan Company
Northbrook, Illinois 60062
Telephone (847) 446-7500

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