



Formulation

Name	PREMIUM LIQUID DISH DETERGENT	
No.	1317	
Description	This premium liquid dishwash formulation provides excellent cleaning and foaming performance in manual dishwash applications.	
Formulation	INGREDIENTS:	% by Weight Functionality
	Deionized Water	q.s. to 100 Carrier
	STEPANOL® WA-EXTRA HP	40.9 Primary Surfactant
	STEPANATE® SXS	10.7 Hydrotrope
	SDA-40B (190 proof)	1.1 Viscosity Adjuster
	STEOL® CS-270 C	17.3 Primary Surfactant
	AMMONYX® LO	19.8 Secondary Surfactant
	Citric Acid	q.s. pH Adjuster
	Preservative, Dye, and Fragrance	q.s. Additives
	Total	100.0
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 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. 	
Physical Properties	Appearance at 25°C	Clear Liquid
	pH, as is	7.5- 9.5
	Viscosity at 25°C, cps	250 - 750
	Density at 25°C, lbs/U.S. gal	1.04
Storage/ Stability	Freeze/Thaw (3 cycles)	Pass
	4 weeks at 4°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 40°C	Stable
Instructions for Use	<p>Squirt a small amount of detergent into sink and fill sink with warm/hot water. Alternately, squirt a small amount of detergent onto damp sponge or washcloth.</p> <p>The performance of this formulation is equal to a U.S. consumer premium brand dish detergent.</p>	
External Comment	<p>Marketing Notes: BCI = 61. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.</p>	
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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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