



Formulation

Name	SULFATE-FREE COLOR CARE ECONOMY SHAMPOO	
No.	1213	
Description	This formulation provides good lather and color retention properties.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	q.s. to 100.00 Carrier
	STEPAN-MILD® LSB	46.87 Primary Surfactant
	AMPHOSOL® CDB Special	9.73 Secondary Surfactant
	STEPAN-MILD® GCC	1.25 Thickener, Conditioning Agent
	Sodium Chloride	q.s. Viscosity Adjuster
	Citric Acid	q.s. pH Adjuster
	Fragrance, Dye & Preservative	q.s. Additives
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Add Deionized Water to a vessel equipped with mixing capabilities. Start mixing. 2. Add STEPAN-MILD® LSB and AMPHOSOL® CDB Special. 3. While mixing, add STEPAN-MILD® GCC. Continue mixing until homogenous. 4. Adjust viscosity and pH, if necessary. 5. Add Fragrance, Dye and Preservative. 	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	5.35–5.45
	Viscosity at 25°C, cps	11,000–13,000
Storage/Stability	Freeze/thaw, 3 cycles	Pass
	1 month at 50°C	Pass
	1 month at 4°C	Pass
	1 month at 25°C	Pass
Instructions for Use	Apply product to wet hair. Lather and then rinse thoroughly. Repeat if desired.	
External Comment	<p>Marketing Notes: BCI = 67. 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. Sulfate-free is defined as not containing Alcohol sulfate or Alcohol ether sulfate as per INCI nomenclature. This definition does not include the inorganic sulfates, e.g. Sodium sulfates, used as processing aids or formed as a residual, impurity or by-product.</p>	
Registered Trademarks of Stepan Company	STEPAN-MILD® AMPHOSOL®	
For	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).	

Additional
Assistance

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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