

Formulation

Name	SILKY SHINE SHAMPOO		
No.	1353		
Description	This thick, pearlescent shampoo is formulated to provide softness and shine commonly associated with youthful, undamaged hair.		
Formulation	INGREDIENTS:	<u>% by Weight</u>	<u>Functionality</u>
	=== Phase 1 ===		
	Deionized Water	42.476	Diluent
	STEPANOL® WA-EXTRA HP	20.500	Surfactant
	STEOL® CS-270 C (or STEOL® CS-270 PLUS)	8.500	Surfactant
	AMPHOSOL® HCG-HP	10.000	Surfactant
	=== Phase 2 ===		
	Citric Acid	0.072	pH Adjuster
	=== Phase 3 ===		
	NINOL® COMF-N	2.000	Viscosity Modifier
	Hallstar® EGMS [Hallstar] Glycol Stearate	1.000	Pearlescent Agent, Opacifier
	=== Phase 4 ===		
	Vitamin E	0.100	Conditioning Agent
	Vitamin A	0.100	Conditioning Agent
	Microcare® PE [Thor] Phenoxyethanol	0.750	Preservative
	=== Phase 5 ===		
	Citric Acid	0.001	pH Adjuster
	Sodium Hydroxide	0.001	pH Adjuster
	Sodium Chloride	0.001	Viscosity Adjuster
	Total	100.000	
Procedure	<ol style="list-style-type: none"> At 25°C (77°F), add Deionized Water, STEPANOL® WA-EXTRA HP, STEOL® CS-270 C (or STEOL® CS-270 PLUS) and AMPHOSOL® HCG-HP to the main vessel with SLOW mixing ensuring the batch is homogeneous before adding each successive ingredient. Adjust the pH to 6.0 with Citric Acid. After adjustment, begin heating the batch to 60°C (140°F). At 60°C (140°F), add Items NINOL COMF-N and Hallstar EGMS to the main vessel with mixing until all solids are dissolved and the batch is uniform. Once uniform, mix for 5 minutes at 60°C (140°F) and begin cooling the batch to <40°C (104°F) with SLOW mixing. When the main vessel is <40°C (104°F), add Items Vitamin E, Vitamin A and Microcare® PE to the main vessel with mixing until batch is uniform. For pH adjustment, incrementally add Citric Acid or Sodium Hydroxide to achieve the target pH. For viscosity adjustment, incrementally add Sodium Chloride to the main vessel to reach the target viscosity. <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, as is pH, as is Viscosity, LV63 at 6 rpm, cps	White to off-white, translucent to opaque, pearly flowing liquid 6.0 - 7.0 4,000 - 18,000
Instructions for Use	Apply product to damp to wet hair, lather until thick fluffy foam is created for at least 30 seconds and rinse until clean.	
External Comment	Marketing Notes: BCI = 80. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com . STEOL® CS-270 PLUS has a maximum residual 1,4-dioxane level of 10 ppm on an as-supplied basis.	
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