



# Formulation

Name	<b>SCALP TREATMENT: SCALP SCRUB</b>		
No.	1498		
Description	Scalp scrubs can provide gentle exfoliation to get rid of product build-up at your roots and remove bits of dry, flaky skin. Scalp scrubs can be challenging for formulators: they should be water-based and rinse completely and easily so no exfoliant bits get left behind. Stepan's Structured Liquid Technology makes it easy to create and customize a clean-rinsing scrub to suit your product development needs. This formulation is step 3 of Stepan's 5-Step Scalp Care Routine.		
Formulation	<b>INGREDIENTS:</b>	<b>% by Weight</b>	<b>Functionality</b>
	=== Phase 1 ===		
	MAPROSYL® 30-B	8.80	Surfactant
	STEPAN-MILD® GCC	10.60	Structure Agent
	Glycerin	2.00	Humectant
	NINOL® CAA	2.00	Secondary Surfactant
	Moroccan Amber (Belle Aire Creations) Fragrance	0.25	Fragrance
	Witch Hazel Leaf in Propylene Glycol	0.25	Additive
	Cucumber Fruit Extract in Propylene Glycol	0.25	Additive
	=== Phase 2 ===		
	Deionized Water	74.85	Diluent
	Sodium Benzoate	0.50	Preservative
	=== Phase 3 ===		
	Lipo™ APS 40/60 (Vantage Personal Care™) Apricot Seeds	0.50	Exfoliating Additive
	=== Phase 4 ===		
	Citric Acid (50% Solution)	q.s.	pH Adjuster
	<b>Total</b>	<b>100.00</b>	
Procedure	<ol style="list-style-type: none"><li>1. In a suitable vessel equipped with heating and agitation capabilities, melt STEPAN-MILD® GCC.</li><li>2. Charge MAPROSYL® 30-B, NINOL® CAA, Glycerin, Extracts (Witch Hazel Leaf in Propylene Glycol and Cucumber Fruit Extract in Propylene Glycol) and Fragrance and stir gently using a Jiffy mixer until a homogeneous thin lamellar phase is obtained. Avoid aeration. Continue to mix and heat to 65°C (149°F).</li><li>3. For phase 2, charge Deionized Water and Sodium Benzoate in a separate vessel. Heat to 65°C (149°F).</li><li>4. Slowly add phase 2 to phase 1 with mixing. Mix using a high-shearing mixer until the lamellar phase completely dissolves and the formulation thickens.</li><li>5. Cool to room temperature.</li><li>6. De-aerate the mixture, if necessary (e.g. using vacuum de-aerator, centrifugation).</li><li>7. Add Lipo™ APS 40/60 using gentle agitation to avoid introducing air into the mixture.</li><li>8. Adjust pH with a Citric Acid (50% Solution) using a gentle agitation to avoid introducing air into the mixture.</li></ol>		

Physical Properties	Appearance at 25°C pH, as is Viscosity at 25°C, cps (LVT Spindle 3 at 12 RPM)	Light brown, flowable suspension 5.5 - 6.5 5,000 - 9,000
Storage/Stability	4 weeks at 4°C 4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw 3 cycles	Stable Stable Stable Pass
Instructions for Use	Use as a shampoo: Make sure hair is thoroughly wet, and apply directly onto your scalp. Gently massage into a lather, then rinse hair with water thoroughly. Use 1 time a week, or as needed. Follow with your favorite conditioner.	
External Comment	Marketing Notes: Cleanses, detoxifies, and removes buildup on scalp. Rinses clean and leaves scalp feeling refreshed.	
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