



Formulation

Name	SCALP TREATMENT: CONDITIONING SHAMPOO		
No.	1497		
Description	A good cleansing shampoo acts like a facial cleanser, removing excess product and sebum from your hair and scalp. This combination of surfactants used results in a large volume of dense, creamy foam that is a great match for any luxurious shampoo, and the addition of STEPANQUAT® Helia ensures hair stays soft and moisturized during the treatment process. This formulation is step 2 of Stepan's 5-Step Scalp Care Routine.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	=== Phase 1 ===		
	Deionized Water	q.s. to 100.00	Diluent
	BIO-TERGE® AS-40 HP	35.00	Primary Surfactant
	MAPROSYL® 30-B	5.00	Surfactant
	Sodium Benzoate	0.50	Preservative
	=== Phase 2 ===		
	LATHANOL® LAL POWDER (or LATHANOL® LAL COARSE)	7.000	Secondary Surfactant
	HALLSTAR® EGMS (Hallstar) Glycol Stearate	1.000	Opacifier
	HALLSTAR® EGDE (Hallstar) Glycol Distearate	0.500	Opacifier
	STEPANQUAT® Helia	1.000	Conditioning Agent
	=== Phase 3 ===		
	Antil® 127 MB (Evonik) PEG-120 Methyl Glucose Dioleate	5.00	Thickener
	STEPAN-MILD® L3	0.50	Moisturizing Agent
	Menthol Crystals	0.50	Feel Enhancer
	Frescolat® ML (Symrise) Menthyl Lactate	0.25	Feel Enhancer
	Argan Oil	0.50	Moisturizing Agent
	=== Phase 4 ===		
	Gin Tonic SZUSM000645 (Sozio) Fragrance	0.50	Fragrance
	Green Tea Extract	0.01	Additive
	=== Phase 5 ===		
	Citric Acid	q.s.	pH Adjuster
	Sodium Hydroxide	q.s.	pH Adjuster
	Sodium Chloride	q.s.	Viscosity Adjuster
	Total	100.00	
Procedure	<ol style="list-style-type: none">1. Add phase 1 items to the main tank and begin heating to 75°C (167°F) with regular mixing.2. At 75°C (167°F), add phase 2 items to the main tank with regular mixing until all solids have dissolve. Once dissolved, continue mixing at 65°C (149°F) for 5 minutes, then begin cooling batch to 40°C (104°F).3. Premix phase 3 items and mix until all solids are dissolved and the premix is clear. Add the premix to the main tank at 40°C (104°F) until uniform. Cool to <40°C (104°F).4. Adjust pH with Citric Acid (to decrease pH) or Sodium Hydroxide (to increase pH). Citric Acid or		

	Sodium Hydroxide in the form of granules or 25% solution can be used. 5. Adjust viscosity (up) with Sodium Chloride in the form of granules or a solution can be used.	
Physical Properties	Appearance, as is	Off-white, pearlescent liquid
	pH at 25°C	5.5 - 6.5 (Target: 6.0)
	Viscosity (LV63 at 30 rpm), cps	7,500 - 12,500 (Target: 10,000)
Storage/ Stability	1 month at 25°C	Stable
	1 month at 5°C	Stable
	1 month at 40°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions for Use	Apply a generous amount of product to hair and scalp and lather vigorously. Rinse with water and repeat as needed.	
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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 Company
Northbrook, Illinois 60062
Telephone (847) 446-7500

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