

Formulation

Name	DETOXIFYING SCALP SCRUB	
No.	1359	
Description	Struggling with flat roots? It could be due to the buildup of product and oil. This shampoo-scrub hybrid uses apricot seed powder to exfoliate the scalp with gentle sulfate-free cleansers to remove the buildup. Better yet, this formulation is easy to customize, add whatever feel-good ingredients your hair may be craving.	
Formulation	<p><u>INGREDIENTS:</u></p> <p>=== Phase 1 === ALPHA-STEP® PC-48 STEPAN-MILD® GCC Glycerin NINOL® CAA Aloe Vera Gel in Propylene Glycol (Bio-Botanica, Inc.) Aloe Barabadensis Leaf Juice Cucumber in Propylene Glycol (Bio-Bontainca, Inc.) Cucumis Sativus (Cucumber) Fruit Extract</p> <p>=== Phase 2 === Lipo® APS 40/60 (Vantage Specialty Ingredients) Prunus Armeniaca (Apricot) Seed Powder Fragrance</p> <p>=== Phase 3 === Deionized Water Sodium Benzoate</p> <p>=== Phase 4 === Citric Acid, 50% Solution</p> <p>Total</p>	<p><u>% by Weight</u> <u>Functionality</u></p> <p>8.5 Preservative 12.0 Structure Agent 2.0 Humectant 2.0 Foam Booster 0.25 Additive 0.25 Additive</p> <p>0.5 Exfoliating Additive 0.5 Fragrance</p> <p>73.5 Carrier 0.5 Preservative</p> <p>q.s. pH Adjuster</p> <hr/> <p>100.0</p>
Procedure	<ol style="list-style-type: none"> 1. Pre-melt STEPAN-MILD® GCC at 45°C (113°F) until sample is a clear liquid. 2. In a vessel with mixing and heating capabilities, charge Phase 1 ingredients one by one while mixing. Begin heating to 65°C (149°F). 3. Mix until completely homogeneous and a lamellar phase is obtained. 4. Slowly with an A-blade mixer, add Lipo® APS 40/60 into the vessel. Mix until homogeneous. 5. Charge Fragrance and mix. 6. In a separate vessel with mixing and heating capabilities, charge Phase 2 ingredients. Mix and heat to 65°C (149°F). 7. When both phases reach 65-70°C (149-158°F), slowly add Phase 2 to Phase 1. Mix using a high-shearing mixer until the lamellar phase completely dissolves and the formulation thickens. Use of a homogenizer is recommended. 8. Cool to room temperature with slow mixing. 9. De-aerate the mixture, if necessary (e.g. using vacuum de-aerator, centrifugation). 10. Adjust the pH with Citric Acid, 50% Solution to target pH 5.5. Use gentle agitation to avoid 	

introducing air into the mixture.

Physical Properties	Appearance at 25°C pH, as is	Flowable, thick suspension 5.5 - 6.0
Storage/ Stability	4 weeks at 5°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 45°C	Stable
	Freeze/Thaw (3 cycles)	Passes
Instructions for Use	Place a dime sized amount of scrub in palm. To damp scalp, rub in gently. Rinse and repeat as necessary.	
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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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