

Formulation

Name	PREMIUM SULFATE-FREE* CONDITIONING SHAMPOO	
No.	1111	
Description	This formulation is made with all naturally-derived surfactants and provides good foam and conditioning properties.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	ALPHA-STEP® PC-48	27.00 Primary Surfactant
	AMPHOSOL® CDB Special	15.00 Secondary Surfactant
	STEPAN-MILD® L3	0.50 Conditioning Agent
	STEPAN® SLL-FB	0.50 Foam Booster
	Hydrocoll EN-55 (Arch Chemical) Hydrolyzed Collagen	0.25 Conditioning Agent
	Flax Extract 130 (Natunola) Linium Usitatissium Extract	0.25 Conditioning Agent
	Mackernium 007 (The McINTYRE Group) Polyquaternium-7	2.84 Conditioning Agent
	Panthenol (50%) (DSM) Panthenol	0.25 Conditioning Agent
	EGMS (Hallstar) Glycol Monostearate	0.25 Pearlescent Agent
	Fragrance	0.10 Additive
	Dye	q.s. Additive
	Kathon CG (Rohm and Haas) Methylchloroisothiazolinone and Methylisothiazolinone	0.05 Preservative q.s. pH Adjuster
	Citric Acid (25%)	q.s. to 100.00 Carrier
	Deionized Water	
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1) In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water. 2) Begin heating water and add ALPHA-STEP® PC-48, AMPHOSOL® CDB Special, STEPAN-MILD® L3, STEPAN® SLL-FB, and Glycol Distearate using moderate agitation. Continue to heat to 60°C–65°C. Mix for at least 30 minutes until all materials are dissolved. 3) Begin cooling to 40°C and adjust mixing to minimize aeration. At 40°, add Mackernium 007, Hydrocoll EN-55, Flax Extract, and Panthenol with continued mixing. 4) Cool batch to 25°C. Adjust pH with Citric Acid or Sodium Hydroxide, 5) Add Preservative, Dye, and Fragrance as desired. 	
Physical Properties	pH as is	5.0–5.5
	Viscosity at 25°C	5,500–6,500 cps
	Appearance at 25°C	Pearlized viscous liquid
Storage/Stability	4 weeks at 25°C	Stable
	4 weeks at 5°C	Stable
	4 weeks at 50°C	Stable
	Freeze/Thaw 3 cycles	Stable
Instructions for Use	Apply the product on wet hair. Lather, then rinse thoroughly.	
	Mild conditioning shampoo. Can be used daily.	
External		

Comment | Marketing Notes: Sulfate-Free* means containing no alcohol sulfate or alcohol ether sulfate per INCI nomenclature.

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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).
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