

# Formulation

Name	<b>PEARLESCENT CONDITIONING SHAMPOO WITH COCONUT OIL</b>	
No.	1236	
Description	This is a premium conditioning shampoo that does not use heavy silicones.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	Deionized Water	q.s. to 100.00 Carrier
	UCARE Polymer JR-30M (Dow) Polyquaternium-10	0.15 Thickener
	STEPANOL® AMV	25.00 Primary Surfactant
	STEOL® CA-330	18.00 Primary Surfactant
	AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)	3.60 Secondary Surfactant
	NINOL® CAA	1.60 Viscosity Builder
	Versene 100 (Dow Chemical) Tetrasodium EDTA	0.10 Chelating Agent
	Glucamate DOE-120 (Lubrizol) PEG-120 Methyl Glucose Dioleate	0.30 Thickener
	Coconut Oil	0.20 Emollient
	HALLSTAR® EGDS (Hallstar) Ethylene Glycol Distearate	0.25 Pearlescent Agent
	Merquat 550 (Lubrizol) Polyquaternium-7	1.00 Conditioning Agent
	Preservative, Dye and Fragrance	q.s. Additives
	Citric Acid, 50% solution	q.s. pH Adjuster
	Sodium Hydroxide, 50% solution	q.s. pH Adjuster
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge the Deionized Water in a suitable vessel equipped with heating/cooling and agitation.</li> <li>2. Sprinkle in UCARE Polymer JR-30M and mix until well dispersed.</li> <li>3. Heat to 72°C–75°C. Add STEPANOL® AMV, STEOL® CA-330, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), NINOL® CAA, and Versene 100. Mix until dissolved and homogenous.</li> <li>4. Add Glucamate DOE-120, Coconut Oil, and HALLSTAR® EGDS with mixing. Continue mixing for 30 minutes at 72°C–75°C until system is homogeneous. Begin cooling to 40°C.</li> <li>5. At 40°C, add Merquat 550 with mixing. Continue cooling to room temperature.</li> <li>6. Adjust pH to 5.0-6.0 with either Sodium Hydroxide, 50% solution or Citric Acid, 50% solution.</li> <li>7. Add Preservative, Dye and Fragrance.</li> </ol> <p>*Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid, 50% solution may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.</p>	
Physical Properties	Appearance at 25°C	White, pearlescent viscous liquid
	pH, as is	5.0-6.0
	Viscosity at 25°C, cps	13,000-15,000
Storage/Stability	4 weeks at 25°C	Stable
	4 weeks at 45°C	Stable
	Freeze/Thaw, 3 cycles	Passes
Instructions for Use	Apply to hair and massage scalp. Rinse.	
External		

Comment

Marketing Notes: NINOL® CAA is a multi-functional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources). BCI = 85. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit [www.stepan.com](http://www.stepan.com). STEPANOL® AMV PCK may be a potential substitute for STEPANOL® AMV. It should be noted that stability testing using this STEPANOL® AMV PCK has not been completed on this formulation. The substitution may yield slightly different physical properties.

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