



Formulation

Name	WHIPPED MOISTURIZING BODY WASH WITH COCONUT OIL	
No.	1233	
Description	Turn your shower into a spa and indulge yourself with this luxurious whipped body wash. Its whipped, creamy texture transforms into a soft and rich lather to gently cleanse your skin. Natural coconut oil and naturally-derived NINOL® CAA smooth and moisturize skin for a clean, pampered feel.	
Formulation	INGREDIENTS: Deionized Water UCARE Polymer JR-30M (Dow DuPont Inc.) Polyquaternium-10 STEPAN-MILD® PCL AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) NINOL® CAA Coconut Oil Lauric Acid Magnesium Sulfate Sodium Hydroxide, 50% solution Citric Acid, 50% solution Preservative, Dye, Fragrance	<u>% by Weight</u> <u>Functionality</u> q.s. to 100 Carrier 0.25 Thickener 55.00 Primary Surfactant 9.80 Secondary Surfactant 2.00 Viscosity Builder 12.50 Emollient 2.50 Emulsifier 1.50 Co-emulsifier q.s. pH Adjuster q.s. pH Adjuster q.s. Additives
	Total	100.00
Procedure	1. In a suitable vessel equipped with heating/cooling and agitation, charge the Deionized Water. 2. Sprinkle in the UCARE Polymer JR-30M and mix until dispersed. 3. Heat to 50°C (122°F) and then add STEPAN-MILD® PCL, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), and NINOL® CAA. Mix until homogenous. 4. Heat to 70-75°C (158-167°F) and add the Coconut Oil, Lauric Acid, and Magnesium Sulfate. Mix for 30 minutes until homogenous. Begin cooling to 40°C (104°F). 5. When cooled at or below 40°C (104°F), adjust pH to 5.0-6.0 with Sodium Hydroxide, 50% solution and Citric Acid, 50% solution. 6. Add Preservative, Dye, and Fragrance. *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.	
Physical Properties	Appearance at 25°C pH, as is Viscosity at 25°C, cps	White opaque cream 5.0-6.0 40,000
Storage/Stability	4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw, 3 cycles	Stable Stable Passes
Instructions for Use	Apply to wet sponge or washcloth. Apply to body. Rinse with water.	
External		

Comment | Marketing Notes: *Natural is defined as 100% bio-based, which is defined as sourced from plant, animal or marine sourced materials. Naturally-derived is defined as surfactants sourced from plant, animal or marine feedstocks. NINOL® CAA is a multifunctional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources). BCI = 86. 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.

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