

Formulation

Name	CLEAR BODY WASH WITH MORINGA OIL	
No.	1260	
Description	This sulfate-free clear body wash provides a creamy foam that lends itself to a perceived smooth skin after-feel. NINOL® CAA and STEPAN-MILD® GCC provide salt-free thickening while enhancing mildness and skin hydration.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	BIO-TERGE® AS-40 HA	36.0 Primary Surfactant
	STEPAN-MILD® LSB	10.0 Primary Surfactant
	AMPHOSOL® HCA-HP	15.0 Secondary Surfactant
	=== Phase 2 ===	
	NINOL® CAA	2.0 Secondary Surfactant, Viscosity Builder
	STEPAN-MILD® GCC	1.5 Feel Enhancer
	STEPANTEX® CO-40	2.0 Solubilizer
	Moringa Oil (Princeton Chemicals, Inc.)	0.1 Emollient
	Fragrance Midnight Woods #59287 (Chemia)	q.s. Fragrance
	=== Phase 3 ===	
	Citric Acid (50% aq. Solution)	q.s. pH Adjuster
	Preservative	q.s. Preservative
	Dye	q.s. Dye
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. In a vessel equipped with heating and agitation capabilities, charge Phase 1 ingredients. 2. Heat to 50-60 °C (122-140 °F) with mixing. 3. In a separate vessel, premix Phase 2 ingredients until clear and homogenous. 4. Add Phase 2 to Phase 1 with continuous mixing. Mix for 15-20 minutes until clear and homogeneous. 5. Cool to 25 °C (77 °F). 6. Adjust pH with Citric Acid (50% aq. solution). Add dye and preservative. 	
Physical Properties	Appearance at 25 °C	Clear viscous liquid
	pH, as is	6.0 - 6.5
	Viscosity at 25 °C, cps	4,000 - 5,000
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	Apply onto a wet bath pouf, washcloth, or hands. Work into a rich lather, then rinse well with water. Repeat as desired.	
External		

Comment

Marketing Notes: Sulfate-free is defined as not containing Alcohol sulfate or Alcohol ether sulfate as per INCI nomenclature. This definition does not include the inorganic sulfates, e.g. Sodium sulfates, used as processing aids or formed as a residual, impurity or by-product. This formulation does not contain any sulfated surfactants or Diethanolamine (DEA). NINOL® CAA is a multifunctional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources). This formulation contains several surfactants that are preserved by excess alkalinity (AMPHOSOL® HCA-HP and BIO-TERGE® AS-40 HA). BCI = 35. 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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