



Formulation

Name	DAILY MOISTURIZING BODY WASH WITH STEPANBLEND® FSB-ND	
No.	1254	
Description	This pearlescent, off-white, anionic/amphoteric/nonionic surfactant formulation containing STEPANBLEND® FSB-ND and moisturizing agents (Glycerine and Shea Butter). This formulation is suitable for daily use.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100 Carrier
	METHOCEL™ 40-101 (Dow Chemical) - Hydroxypropyl	0.15 Rheology Modifier
	Methylcellulose	0.02 pH Modifier
	Sodium Hydroxide (50% aqueous solution)	35.00 Surfactant Blend
	STEPANBLEND® FSB-ND	1.50 Pearlescent Agent
	STEPAN® PEARL 4	0.04 Preservative
	Kathon™ CG (Dow Chemical) - CIT/MIT	0.50 Viscosity Modifier
	Sodium Chloride	2.00 Moisturizing Agent
	Glycerine	0.10 Moisturizing Agent
	Shebu Refined (RITA Corporation) - Shea Butter	
	=== Phase 2 ===	
	Citric Acid (50% aqueous solution)	q.s. pH Modifier
	Fragrance	q.s. Fragrance
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Add water to a clean, tared beaker and start mixing at moderate speed. 2. Slowly disperse METHOCEL™ 40-101 into the batch, making sure no clumps are formed. 3. Add Sodium Hydroxide (50% solution) to hydrate the polymer. Mix for at least 20 minutes or until batch is clear and there are no "fish eyes". 4. Add STEPANBLEND® FSB-ND, STEPAN® PEARL 4, Kathon™ CG and Sodium Chloride, mixing well after each component. 5. Add Glycerine. Mix well. 6. Add Shebu Refined. Mix for at least 20 minutes. 7. Add Fragrance if desired. 8. Adjust pH to 5.5-6.5 with Citric Acid (50% solution). 	
Physical Properties	Appearance, as is	Pearlescent, off-white liquid
	pH, as is	5.5-6.5
	Viscosity, cps (Brookfield LVT, spindle 3 speed 12)	6,000-10,000
Storage/Stability	25 °C after 2 months	Stable
	4 °C after 2 months	Stable
	45 °C after 2 months	Stable
	Freeze/Thaw, 3 cycles	Passes
Instructions for Use	Squeeze onto hands, wet pouf or washcloth then apply onto wet skin. Work into a lather. Rinse.	

External
Comment

Marketing Notes: BCI = 73. 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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