



# Formulation

Name	<b>NATURALLY DERIVED SULFATE-FREE BODY WASH</b>	
No.	1212	
Description	This sulfate-free formulation contains naturally-derived surfactants. It provides high foam while conditioning skin.	
Formulation	<b>INGREDIENTS:</b> Deionized Water ALPHA-STEP® PC-48 STEPAN-MILD® LSB AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) LATHANOL® LAL Powder STEPAN-MILD® GCC Sodium Chloride Citric Acid Fragrance, Dye, and Preservative	<b>% by Weight    Functionality</b> q.s. to 100.00 Primary Surfactant 20.50 Surfactant Blend 19.50 Secondary Surfactant 19.35 Surfactant 2.96 Thickener, Conditioning Agent 0.50 Viscosity Adjuster q.s. pH Adjuster q.s. Additive q.s.
	<b>Total</b>	<b>100.00</b>
Procedure	1. Add Deionized Water to a suitable vessel equipped with mixing, heating, and cooling capabilities. 2. Begin mixing, heating to 55°C–57°C (131°F-135°F). Add LATHANOL® LAL Powder. When solution is clear, begin cooling. 3. At 44°C–45°C, add ALPHA-STEP® PC-48, STEPAN-MILD® LSB, and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP). Continue cooling to room temperature. 4. At 35°C–37°C, add STEPAN-MILD® GCC. Mix well. 5. Adjust viscosity with Sodium Chloride and pH with Citric Acid, if necessary. 6. Add Fragrance, Dye, and Preservative. *Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid 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	Clear liquid 5.4–5.5 14,500–17,000
Storage/Stability	Freeze/thaw, 3 cycles 1 month at 50°C 1 month at 4°C 1 month at 25°C	Pass Pass Pass Pass
Instructions for Use	Squeeze a small amount of product on a wet bath pouf or wash cloth. Apply to the skin, working into a rich lather. Rinse.	
External Comment	Marketing Notes: Naturally-derived is defined as derived from biorenewable resource originating from animal, plant or marine feedstock. All Stepan surfactants used in formulations labeled as naturally-derived have a minimum of 50% biorenewable carbon content (based on Stepan's BCI	

calculation). BCI = 75. 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). 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.

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