

Formulation

Name	STRUCTURED LIQUIDS TECHNOLOGY - MILK TO FOAM BODY WASH WITH 20% NATURAL OIL	
No.	1245	
Description	A body wash with creamy texture that turns into foam and softens the skin.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	STEPAN-MILD® GCC	12.0 Structure Agent, Surfactant
	STEPANOL® AM-CIT/MIT	20.0 Surfactant
	Natural Oil (Soybean, Sunflower or Coconut)	20.0 Moisturizing Agent
	Fragrance	q.s. Fragrance
	=== Phase 2 ===	
	Deionized Water	q.s. to 100.0 Diluent
	Sodium Benzoate	0.5 Preservative
	=== Phase 3 ===	
	Citric Acid	q.s. pH Adjuster
	Dye	q.s. Dye
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. In a suitable vessel equipped with heating and agitation capabilities, charge STEPANOL® AM-CIT/MIT and STEPAN-MILD® GCC with mixing at 45°C mix until homogenous and avoid aeration. 2. Add the Natural Oil and Fragrance (if desired) with agitation. Mix until homogenous. Avoid aeration. 3. In a separate vessel, pre-mix Deionized Water and Sodium Benzoate. Heat to 45-60°C. Mix until completely clear. 4. Add this premix to the batch under high shear mixing a homogenizer is recommended. Mix until homogeneous, avoid aeration. 6. Adjust pH with Citric Acid. 7. Add Dye as desired. 	
Physical Properties	Appearance at 25°C	Opaque viscous liquid
	pH, as is, at 25°C	5.0 - 5.5
	Viscosity at 25°C (RVT A, 10 rpm, 60 sec), cps	7,000 - 12,000
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
External Comment	Marketing Notes: Structured Liquids are a patented technology, used for suspension of particles and is free from the use of polymers. The body wash rinses cleanly and quickly, ultra-mild formula	

offers natural nourishment. BCI = 99. 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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For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
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