



Formulation

Name	MILK-TO-FOAM SHOWER CREAM WITH 50% OIL	
No.	1588	
Description	Enjoy a new sensory experience with Stepan! This oil based creamy and milky body wash turns into airy, light and enveloping foam under the water. Formulating challenges overcome with a surfactant based suspension system using Stepan Structured Liquid Technology to suspend up to 50% of natural oil without use of a synthetic polymer. This innovative surfactant system relies on STEPAN-MILD® GCC-FL/MB, a 100% naturally derived, vegetable based and COSMOS approved emollient.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 === STEPAN-MILD® GCC-FL/MB	12.00 Structure Agent
	=== Phase 2 === STEPANOL® ALS-25 B/MB	9.50 Primary Surfactant
	=== Phase 3 === Vegetable (Sunflower) Oil - Helianthus Annuus Seed Oil Tocopherol (Mosselman SA) Tocopherol	50.00 Emollient 0.05 Antioxidant
	=== Phase 4 === Deionized Water Beauty Color (V.MANE FIS) Euxyl™ K 712 (Schülke & Mayr GmbH) Sodium Benzoate and Potassium Sorbate	27.45 Carrier 0.30 Fragrance 0.70 Preservative
	=== Phase 5 === Citric Acid (50% Solution)	q.s. pH Adjuster
	Total	100.00
Procedure	Cold-process formulation - Prepare at room temperature: 1. In a suitable vessel, pre-mix STEPAN-MILD® GCC-FL/MB and STEPANOL® ALS-25 B/MB with a propeller until obtaining a viscous homogeneous mixture. Placing the propeller in the bottom of the vessel will avoid incorporating air. 2. Pre-blend Phase 3 in a separate vessel, and add Phase 3 to the main vessel (Phase 1 and Phase 2) under agitation. Mix until homogeneous. 3. Gradually introduce ingredients from Phase 4 one by one, in the order listed. A high shear mixer can be used to increase viscosity but this is not mandatory. Mix until homogeneous, avoid aeration. 4. If necessary, adjust pH using Citric Acid (50% Solution) to a pH of 5.0 - 5.5.	
Physical Properties	Appearance, as is pH, as is Viscosity at 20°C, cps (Brookfield, LV2, 12rpm)	White creamy texture 5.0 - 5.5 18,000
Storage/Stability	4 weeks at 5°C 4 weeks at 20°C	Stable Stable

	4 weeks at 45°C Freeze/Thaw, 3 cycles	Stable Pass
Instructions for Use	Apply a small amount to a wet sponge and apply to body. Rinse with water.	
External Comment	Marketing Notes: INCI List - Helianthus Annuus Seed Oil, Aqua, Glyceryl Caprylate/Caprata, Glycerin, Ammonium Lauryl Sulfate, Propanediol, fragrance, Sodium Benzoate, Potassium Sorbate, Tocopherol, Citric Acid	
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