



# Formulation

Name	SILKY FOAMING HAND SOAP		
No.	1501		
Description	This is a sulfate-free, EO-free (ethylene oxide free), and nitrosamine free hand soap based on ALPHA-STEP® PC-48. This sulfate-free and EO-free surfactant enables the production of a light and airy foam. AMPHOSOL® DM/MB enhances mildness and is an excellent thickening agent for tougher sulfate-free systems and is a COSMOS approved ingredient. STEPAN-MILD® GCC-FL/MB, a naturally derived and COSMOS approved ingredient, is used as foam volume booster and gives a soft and cushioned feel to the skin. This formulation has a low active level at 5.5% total actives, and can be formulated without heat. The water thin viscosity of this formulation is designed for a foaming hand soap dispenser.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	=== Phase 1 ===		
	Deionized Water	83.44	Carrier
	ALPHA-STEP® PC-48	9.40	Primary Surfactant
	AMPHOSOL® DM/MB	5.91	Secondary Surfactant
	=== Phase 2 ===		
	euxyl™ k 712 (Ashland, Inc.)**	1.00	Preservative
	Silky Touch (Mane SA) Fragrance	0.05	Fragrance
	=== Phase 3 ===		
	Citric Acid	q.s.	pH Adjuster
	=== Phase 4 ===		
	STEPAN-MILD® GCC-FL/MB	0.20	Skin Feel Enhancer
	Total	100.00	
Procedure	1. In a vessel, introduce Deionized Water and the other ingredients of phase 1 and mix until complete homogenization. 2. Add ingredients in phase 2 with mixing. 3. Adjust pH with Citric Acid to target a pH between 5.0 and 5.5. 4. Finally, add STEPAN-MILD® GCC-FL/MB with mixing. **Note: INCI name for euxyl™ k 712 supplied by Ashland, Inc. is Sodium Benzoate (and) Potassium Sorbate (and) Aqua.		
Physical Properties	Appearance, as is	Transparent solution	
	pH, as is	5.32	
Storage/ Stability	4 weeks at 5°C	Stable	
	4 weeks at 25°C	Stable	
	4 weeks at 45°C	Stable	
Instructions for Use	Apply to wet skin and rinse under water.		

External  
Comment

Marketing Notes: INCI List - Aqua, Sodium Methyl 2-Sulfolaurate, Disodium 2-Sulfolaurate, Coco Betaine, Glyceryl Caprylate/Caprate, Sodium Benzoate, Citric Acid, Potassium Sorbate, Glycerin, Fragrance, Propanediol.

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Assistance

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