



Formulation

Name	CLEANSING SHOWER BAR -- "BUBBLES IN A BAR"	
No.	1329	
Description	A modern twist on a classic concept, this soap-free syndet bar is packed with sulfate-free cleansers to get your skin feeling clean and fresh. Unlike some bar soaps that can leave skin feeling tight and dry, this unique shower bar formula contains STEPAN-MILD® GCC, a natural moisturizer that leaves skin feeling soft and smooth.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	NINOL® COMF-N	27.0 Secondary Surfactant
	HALLSTAR CO-1895 (The HallStar Company) Stearyl Alcohol	20.0 Rheology Modifier
	STEPAN-MILD® GCC	4.5 Emollient
	=== Phase 2 ===	
	LATHANOL® LAL Coarse	27.0 Surfactant
	BIO-TERGE® AS-90 Beads	21.0 Surfactant
	=== Phase 3 ===	
	Lactic Acid (80% Solution)	q.s. pH Adjuster
	=== Phase 4 ===	
	Fragrance, Dye	q.s Additives
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. In a suitable vessel equipped with heating and agitation capabilities, charge STEPAN-MILD® GCC, NINOL® COMF-N, and HALLSTAR CO-1895. 2. Heat to 90°C (104°F) with mixing. 3. Add LATHANOL® LAL Coarse and BIO-TERGE® AS-90 Beads. Mix well at 90°C (104°F). 4. Add Lactic Acid to adjust the pH close to pH 5.5. Measure the pH with 1 gram of the formulation in Deionized Water, and continue to adjust as needed until the desired pH range is reached. 5. Add the fragrance and dye with mixing (if desired). Pour off into in the silicone molds and let cool to let the bar form. 	
Physical Properties	Appearance, as is	Off-white solid bar
	pH (as a liquid)	5.5
Storage/ Stability	4 weeks at 5°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 45°C	Stable
	Freeze/Thaw 3 cycles	Pass
Instructions for Use	Rub between wet hands to create a lather, or directly onto wet hair. Massage into your hair and scalp. When you're happily lathered and massaged, rinse clean.	
External Comment	Marketing Notes: BCI = 64. 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. When storing, keep your shampoo bar away from water. Natural is defined as 100% bio-based; STEPAN-MILD® GCC has a BCI = 100%.

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LATHANOL®
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Additional
Assistance

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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Revision Date: Publication Date: 12/02/2019 © 2019, Stepan Company. All rights reserved.