



Formulation

Name	STRUCTURED LIQUIDS TECHNOLOGY - GENTLE EXFOLIATING FACIAL WASH WITH CHARCOAL	
No.	1262	
Description	This unique and innovative formulation exfoliates and clarifies your skin with natural jojoba beads and activated charcoal, an ingredient known to absorb oils and draw out impurities. Sulfate-free cleanser ALPHA-STEP® PC-48 easily rinses away dirt and oil and natural emollient STEPAN-MILD® GCC leaves your face feeling smooth and soft. This formulation was a Finalist for the 2018 CEW Beauty Awards in the Innovation category.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	ALPHA-STEP® PC-48	8.50 Surfactant
	STEPAN-MILD® GCC	14.00 Structure Agent, Emollient
	Glycerine	2.00 Humectant
	Argan Oil	0.10 Moisturizing Agent
	Fragrance # 87995 (Belle Aire Creations)	0.25 Fragrance
	=== Phase 2 ===	
	Deionized Water	q.s. to 100.00 Diluent
	Sodium Benzoate	0.50 Preservative
	=== Phase 3 ===	
	Activated Carbon Norit CA1	0.15 Exfoliating Additive
	Florabeads Jojoba	0.15 Exfoliating Additive
	=== Phase 4 ===	
	Citric Acid (50% aqueous solution)	q.s. pH Adjuster
	Total	100.00
Procedure	<ol style="list-style-type: none"> In a suitable vessel equipped with heating and agitation capabilities, melt STEPAN-MILD® GCC*. Charge ALPHA-STEP® PC-48, Glycerine, Argan Oil, and Fragrance and stir gently using a Jiffy mixer until a homogeneous thin lamellar phase is obtained. Avoid aeration. Continue to mix and heat to 65°C (149°F). For phase 2, charge Deionized Water and Sodium Benzoate in a separate vessel. Heat to 65°C (149°F). Slowly add phase 2 to phase 1. Mix using a high-shearing mixer until the lamellar phase completely dissolves and the formulation thickens. Use of a homogenizer is recommended. Cool to room temperature. De-aerate the mixture, if necessary (e.g. using vacuum de-aerator, centrifugation). Add Florabeads Jojoba and Activated Carbon Norit CA1 using gentle agitation to avoid introducing air into the mixture. Adjust pH with a Citric Acid solution using a gentle agitation to avoid introducing air into the mixture. 	

Physical Properties	Appearance at 25°C pH, as is Viscosity at 25°C, cps (LVT Spindle 3 at 12 RPM)	Black, flowable suspension 5.5-6.5 5,000 - 9,000
Storage/Stability	4 weeks at 4°C 4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw 3 cycles	Stable Stable Stable Pass
Instructions for Use	Wet face. Pump cleanser into hands and gently work into a foam. Massage over the entire face. Rinse thoroughly. For optimal results, use daily. Precautions: For external use only. Avoid eye contact. If contact occurs, rinse thoroughly with water. Keep out of reach of children.	

External Comment

Marketing Notes: Marketing Notes: Structured Liquids are a patented technology, used for suspension of particles and is free from the use of polymers. Natural is defined as 100% bio-based, which is defined as sourced from plant, animal or marine sourced materials. The facial wash rinses cleanly and quickly, ultra-mild formulation offers natural nourishment. BCI = 98. 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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