



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:	% by Weight	Functionality
	=== 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

- 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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STEPAN-MILD®

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