

Formulation

Name	REPLENISHING HAND CREAM	
No.	1370	
Description	Did you know that washing damaged skin is less effective at removing bacteria than washing normal healthy skin? Help prevent dry, cracked skin by regularly applying a mild lotion or cream. This particular hand cream features STEPANQUAT® Helia, a naturally derived and hypoallergenic skin conditioner that will leave your hands feeling soft and silky.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	Natrosol 250 HHR (Ashland™) Hydroxyethylcellulose	0.4 Thickener
	Glycerin	2.0 Humectant
	=== Phase 2 ===	
	STEPANQUAT® Helia	1.3 Emulsifier, Skin Feel
	Cetearyl Alcohol	2.0 Viscosity Builder
	STEPAN-MILD® L3	0.5 Emollient
	STEPAN-MILD® GCC	0.5 Emollient
	Rheosol™ CVH(E) (Rheolab)	2.0 Viscosity Modifier
	=== Phase 3 ===	
	Helianthus Annuus (Sunflower) Seed Oil	0.5 Additive
	Cannabidiol (CBD) Oil	0.1 Additive
	Preservative, Fragrance	q.s. Preservative, Fragrance
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Add Deionized Water. Begin mixing with propeller agitation. Slowly shift in hydroxyethylcellulose and allow to mix until hydrated. 2. Begin heating to 70-75°C (158-167°F). Add Glycerin and STEPANQUAT® Helia. 3. Once at temperature, add Cetearyl Alcohol. Mix until fully dissolved while holding temperature. 3. Add STEPAN-MILD® GCC and STEPAN-MILD® L3 one at a time, with mixing between each addition. 4. Cool batch to 40-45°C (104-113°F) and switch to a slow side sweep agitation. Upon reaching temperature, slowly add Rheosol™ CVH(E). Stir before use. Mix with slow agitation until smooth. 5. Add Sunflower Seed Oil and Cannabidiol (CBD) Oil, preservative, and fragrance one at a time while mixing between each addition until all is uniform. Cool to room temperature, 25°C (77°F) and fill. <p>**Additional chemical description information on recommended non-Stepan ingredients for the formulations: Rheosol™ CVHE (Rheolab) - Polyquaternium-37 (and) Propylene Glycol Dicaprylate Dicaprate (and) PPG-1 Trideceth-6</p>	
Physical Properties	Appearance at 25°C	White cream
	pH, as is	3.5 - 4.5
	Viscosity at 25°C (LV3, 12 RPM), cps	45,000 - 65,000

Storage/ Stability	4 weeks at 25°C	Stable
	4 weeks at 40°C	Stable
	4 weeks at 5°C	Stable
	Freeze/Thaw (3 cycles)	Pass

Instructions for Use Apply dime sized amount to palm or top of hand. Rub in thoroughly. Repeat as desired.

External Comment

Marketing Notes: BCI = 93. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com. Natural is defined as 100% bio-based, which is defined as sourced from plant, animal or marine sourced materials.

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For 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).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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