



Formulation

Name	FACIAL LOTION WITH STEPANQUAT® Helia		
No.	1371		
Description	Keep skin hydrated and moisturized with this facial lotion containing STEPANQUAT® Helia, a naturally derived and hypoallergenic skin conditioner and NEOBEE® M-5 COSMETIC, a natural emollient.		
Formulation	INGREDIENTS:	<u>% by Weight</u>	<u>Functionality</u>
	=== Phase 1 ===		
	Deionized Water	88.55	Solvent
	Natrosol™ 250 HHR (Ashland™) Hydroxyethylcellulose	0.500	Viscosity Modifier
	STEPANQUAT® Helia	0.500	Emulsifier, Moisturizing Agent
	=== Phase 2 ===		
	NEOBEE® M-5 COSMETIC	3.000	Emollient
	Squalane	1.000	Moisturizing Agent
	HALLSTAR® CO-1695 Cetyl Alcohol NF (Hallstar Corp.) Cetyl Alcohol	1.000	Viscosity Mod.
	HALLSTAR® GMS SE (Hallstar Corp.) Glyceryl Stearate SE	1.000	Emulsifier
	=== Phase 3 ===		
	Olivem® 2020 G (Hallstar) Ethylhexyl Olivatate (and) Sodium Acrylates Copolymer (and) Polyglyceryl-4 Oleate	1.200	Viscosity Modifier
	=== Phase 4 ===		
	Microcare® BDB (THOR Specialties Inc.) Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid	0.750	Preservative
	Panthenol	0.500	Moisturizing Agent, Anti-irritant
	Avena Sativa (Oat) Kernel Oil	0.500	Emollient
	Distinctive™ Blueberry 5P (Vantage Specialty Chemicals™)	1.000	Antioxidant, Skin Protectant
	Propanediol (and) Vaccinium Angustifolium (Blueberry) Fruit Extract	0.500	Fragrance
	Fragrance		
	=== Phase 5 ===		
	Citric Acid (50% Solution)	q.s.	pH Adjuster
	Sodium Hydroxide (25% Solution)	q.s.	pH Adjuster
	Total	100.000	
Procedure	<ol style="list-style-type: none"> 1. Add Deionized Water (amount from Phase 1) and Natrosol™ 250 HHR to the main tank with regular mixing until particles are dispersed. The batch will be cloudy in appearance. 2. Adjust pH to 8.5 to 12 with Sodium Hydroxide (25% solution) and allow the Hydroxyethylcellulose to hydrate. This will occur when the batch is crystal clear in appearance. 3. Once hydrated, adjust the pH of the main tank to 5.0 to 6.5 using Citric Acid (50% solution). Begin heating batch to 65°C (149°F) and hold at temperature until Step 6. 4. Add STEPANQUAT® Helia to the main tank while the batch is heating to 65°C (149°F) and continue regular mixing until the batch is uniform. 		

5. Add NEOBEE® M-5 Cosmetic, Squalene, HALLSTAR® CO-1695 Cetyl Alcohol NF and HALLSTAR® GMS SE to an auxiliary tank and begin heating to 65°C (149°F) with regular mixing, and then hold the temperature at 65°C (149°F) for emulsification.
6. When both the main and auxiliary tanks are at 65°C (149°F), add the contents of the auxiliary tank to the main tank with fast mixing. Once the batch is uniform, homogenize the batch at 5,100 rpm for NMT 1 min/kg with Silverson Homogenizer.
7. Once the batch is uniform and homogenization is complete, begin cooling the batch to 40°C (104°F) with regular mixing.
8. While cooling batch from 65°C (149°F) to 40°C (104°F), add in Olivem® 2020 G with regular mixing.
9. At 40°C (104°F), add Microcare® BDB, Panthenol, Avena Sativa (Oat) Kernel Oil, Distinctive™ Blueberry 5P and Fragrance to the main tank with regular mixing.
10. Adjust pH of batch with Citric Acid and/or Sodium Hydroxide to the target pH level as needed.

Physical Properties	Appearance, as is pH at 25°C Viscosity at 25°C (LV63 @ 6 rpm), cps Odor	Light straw to light yellow, opaque, viscous lotion 5.5 (Target: 5.0-6.0) 55,000 - 95,000 Characteristic
Storage/Stability	4 weeks at 4°C 4 weeks at 4°C 4 weeks at 4°C Freeze/Thaw, 3 cycles	Stable Stable Stable Pass
Instructions for Use	Dispense standard amount of product, from pump bottle, onto finger-tips and gently apply on face with circular motions until absorbed into skin dermis layers. Do not apply to eye or mouth areas.	
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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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Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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