



Formulation

Name	OVERNIGHT HAIR TREATMENT SPRAY WITH AVOCADO OIL	
No.	1301	
Description	Wake up with soft, hydrated hair so that you can style and go! Simply spray this Overnight Hair Treatment onto damp or dry hair and work through with your hands. This treatment, powered by naturally-derived STEPANQUAT® Helia and patent-pending technology, works while you sleep to hydrate and condition dry, damaged hair.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	Natrosol™ 250 HHR (Ashland™) Hydroxyethylcellulose	0.20 Thickener
	Glycerin	0.30 Humectant
	STEPANQUAT® HELIA	2.47 Conditioning Agent
	Avocado Oil	0.25 Additive
	Panthenol	0.40 Additive
	=== Phase 2 ===	
	Citric Acid, 50% Solution	q.s. pH Modifier
	Sodium Hydroxide, 50% Solution	q.s. pH Modifier
	Fragrance, Preservative, Dye	q.s. Additives
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Into a vessel equipped with agitator, add Deionized Water and Hydroxyethylcellulose. Start mixing until well dispersed. 2. Add Glycerin with mixing. 3. Add STEPANQUAT® HELIA and mix well until homogenous. 4. Add remaining Phase 1 ingredients to vessel and mix until homogenous. 5. Adjust the pH to target of 4-4.5. 6. Add Fragrance, Preservative, and Dye, as desired. 	
Physical Properties	Appearance, as is	Off-white, flowable liquid
	pH, as is	4-4.5
	Viscosity at 25°C, LVT #3 at 12 rpm (cps)	70-150
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	Formulation is developed for a spray-platform. The suggested packaging is a spray applicator. Spray onto damp, towel-dried hair, concentrating on hair ends. Comb through to distribute the product evenly and leave in overnight. In the morning, style hair as usual.	
External Comment	Marketing Notes: BCI = 88. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Naturally-derived refers to products with a BCI of	

>50%. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.

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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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