



Formulation

Name	LOVE ME SWEET -- TURMERIC & RAW HONEY HAIR MASK	
No.	1310	
Description	Show your hair some love by giving it what it craves—moisture! This hair mask contains raw honey—a natural humectant that works to draw moisture to your hair. This mask also uses STEPANQUAT® HELIA, a modern, naturally derived conditioning agent that is better for your hair and the environment.	
Formulation	INGREDIENTS: === Phase 1 === Deionized Water Natrosol™ 250 HHR CS (Ashland™) Hydroxyethylcellulose === Phase 2 === STEPANQUAT® HELIA HallStar® CO-1895 Stearyl Alcohol NF (The HallStar Company) HallStar® CO-1695 Cetearyl Alcohol NF (The HallStar Company) STEPAN-MILD® GCC === Phase 3 === Deionized Water Potassium Chloride Citric Acid, 50% Solution Preservative === Phase 4 === Turmeric Powder Raw Honey Natural Oils and Fragrance Total	<u>% by Weight</u> q.s. to 100 1.50 2.50 5.00 2.00 0.50 5.00 0.50 q.s. q.s. 0.25 0.05 0.70 <hr/> 100.00
Procedure	<ol style="list-style-type: none"> Charge Deionized Water to a container with mixing and heating properties. Begin to mix. Charge Natrosol™ 250 HHR CS and mix until homogenous. Heat to 70-75°C (158-167°F). Add STEPANQUAT® HELIA and mix until homogenous. Add HallStar® CO1895 Stearyl Alcohol NF, HallStar® CO-1695 Cetearyl Alcohol NF, and STEPAN-MILD® GCC. Mix for 30 minutes. While mixing, cool to 45°C (113°F). In a separate beaker, dissolve Potassium Chloride in Deionized Water. Add to batch with mixing. Adjust the pH for a target of 3.5-4.5 with Citric Acid solution. Add Turmeric Powder, Raw Honey, and Natural Oils and Fragrance. Mix gently until completely homogenous. While mixing, cool to room temperature. 	
Physical Properties	Appearance, as is pH, as is Viscosity at 25°C, LVT #3 at 12 rpm, cps	Bright yellow viscous lotion* 3.5-4.5 8,000-15,000
Storage/ Stability	4 weeks at 5°C 4 weeks at 25°C	Stable Stable

	4 weeks at 45°C Freeze/Thaw 3 cycles	Stable Pass
Instructions for Use	Use once a week as a deep conditioning treatment. After shampooing, generously apply to wet hair, concentrating on ends and roots. Leave on for 5 minutes, then rinse thoroughly.	
External Comment	*The initial color of this formulation is incidentally due to some ingredients used and is likely to fade over time. Marketing Notes: BCI = 90. 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 . Naturally derived is defined as ingredients with a BCI of greater than 50% but less than 100%.	
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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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