


Formulation

Name	RICH CONDITIONING HAIR MASK	
No.	1298	
Description	This deep-treatment hair conditioning mask is designed to be used once a week to moisturize dry, thirsty hair with a sunflower-oil based conditioner and natural oils.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	Natrosol™ 250 HHR CS (Ashland™) Hydroxyethylcellulose	1.5 Thickener
	=== Phase 2 ===	
	STEPANQUAT® HELIA	2.4 Conditioning Agent
	HallStar® CO-1895 Stearyl Alcohol NF (The HallStar Company)	5.0 Emulsifier
	HallStar® CO-1695 Cetearyl Alcohol NF (The HallStar Company)	2.0 Emulsifier
	STEPAN-MILD® GCC	0.5 Viscosity Modifier, Emollient
	Borage Oil	0.2 Additive
	Argan Oil	0.2 Additive
	=== Phase 3 ===	
	Deionized Water	5.0 Diluent
	Potassium Chloride	0.5 Opacifier, Thickener
	=== Phase 4 ===	
	Vitamin E	0.2 Additive
	Witch Hazel Extract	0.1 Additive
	Chamomile Flower Extract	0.1 Additive
	Citric Acid, 50% Solution	q.s. pH Modifier
	Sodium Hydroxide, 50% Solution	q.s. pH Modifier
	Fragrance, Preservative	q.s. Additives
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water to a container with mixing and heating properties. Begin to mix. 2. Charge Natrosol™ 250 HHR CS and mix until homogenous. Heat to 70-75°C (158-167°F). 3. Add STEPANQUAT® HELIA and mix until homogenous. 4. Add HallStar® CO1895 Stearyl Alcohol NF, HallStar® CO-1695 Cetearyl Alcohol NF, STEPAN-MILD® GCC, Borage and Argan Oils. Mix for 30 minutes. 5. While mixing, cool to 45°C (113°F). 6. In a separate beaker, dissolve Potassium Chloride in Deionized Water. Add to batch with mixing. 7. While mixing, add Vitamin E, Witch Hazel and Chamomile Flower Extracts. 7. Adjust the pH for a target of 3.5-4.5 with Citric Acid or Sodium Hydroxide solutions. 8. While mixing, cool to room temperature. 9. Add Fragrance and Preservative, as desired. 	
Physical	Appearance, as is	Off white viscous lotion

Properties	pH, as is Viscosity at 25°C, LVT #3 at 12 rpm (cps)	3.5-4.5 8,000-15,000
Storage/ Stability	4 weeks at 5°C 4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw 3 cycles	Stable Stable 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	Marketing Notes: BCI = 90. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. Naturally-derived refers to products with a BCI of >50%. Natural refers to products with a BCI of equal to 100%. For further information on Stepan's BCI, visit www.stepan.com .	
Registered Trademarks of Stepan Company	STEPANQUAT® STEPAN-MILD®	
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. The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.	
	 <p>Stepan Company Northfield, Illinois 60093 Telephone (847) 446-7500</p>	

Revision Date: 02/06/2019 Publication Date: 02/06/2019 © 2019, Stepan Company. All rights reserved.