

# Formulation

Name	<b>DAILY SMOOTHING CONDITIONER</b>	
No.	1297	
Description	A daily use, smoothing conditioner for normal to fine hair. This simple yet powerful silicone-free formula conditions and smooths hair strands to make every day a good hair day.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 === Deionized Water Structure® Solance (Akzo Nobel N.V.)	q.s. to 100.00 Carrier 3.00 Thickener
	=== Phase 2 === STEPANQUAT® HELIA HallStar® CO-1695 Cetearyl Alcohol NF (The HallStar Company) STEPAN-MILD® L3	1.75 Conditioning Agent 3.50 Emulsifier 0.50 Emollient, Conditioning Agent
	=== Phase 3 === Deionized Water Potassium Chloride	5.00 Diluent 0.50 Opacifier, Thickener
	=== Phase 4 === Citric Acid, 50% Solution Sodium Hydroxide, 50% Solution Fragrance, Preservative	q.s. pH Modifier q.s. pH Modifier q.s. Additives
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>Charge Deionized Water to a container with mixing and heating properties. Begin to mix.</li> <li>Charge Structure® Solance and mix until homogenous. Heat to 70-75°C (158-167°F).</li> <li>Add STEPANQUAT® HELIA and mix until homogenous.</li> <li>Add HallStar® CO-1695 Cetearyl Alcohol NF and STEPAN-MILD® L3. Mix for 30 minutes.</li> <li>While mixing, cool to 45°C (113°F).</li> <li>In a separate beaker, dissolve Potassium Chloride in Deionized Water. Add to batch with mixing.</li> <li>Adjust the pH for a target of 3.5-4.5 with Citric Acid or Sodium Hydroxide solutions.</li> <li>While mixing, cool to room temperature.</li> <li>Add Fragrance and Preservative, as desired.</li> </ol>	
Physical Properties	Appearance, as is pH, as is Viscosity at 25°C, LVT #3 at 12 rpm (cps)	Off white viscous lotion 3.5-4.5 8,000-12,000
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	After shampooing, apply to wet hair and work through with fingers. Rinse thoroughly.	

for Use

External  
Comment

Marketing Notes: BCI = 91. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit [www.stepan.com](http://www.stepan.com).

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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** 

Stepan Company  
Northfield, Illinois 60093  
Telephone (847) 446-7500

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