



# Formulation

Name	<b>CONDITIONER BAR</b>	
No.	1332	
Description	Saving the planet doesn't mean having to sacrifice great hair. This conditioner bar is sulfate-free, silicone-free, and contains moisturizing jojoba oil and shea butter. This bar gives you soft, clean hair, just without the plastic!	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 ===	
	STEPAN-MILD® GCC	5.0 Structure Agent
	WECOBEE® M	5.0 Emollient
	Shea Butter	20.0 Emollient
	Cetearyl Alcohol (and) Ceteareth-20	3.0 Structure Agent
	Stearyl Alcohol	42.8 Structure Agent
	STEPANQUAT® Helia	14.0 Conditioning Agent
	STEPAN-MILD® L3	1.0 Moisturizing Agent
	Jojoba Oil - Simmondsia Chinensis (Jojoba) Seed Oil	9.0 Additive
	=== Phase 2 ===	
	Lactic Acid	q.s. pH Adjuster
	Fragrance, Dye	q.s. Fragrance, Dye
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Into a vessel suitable for mixing and heating, charge Phase 1 ingredients.</li> <li>2. Mix and heat to 80-85°C (176-185°F) until homogenous and clear.</li> <li>3. Measure the pH of the sample, by making a 10% solution in Deionized Water. Adjust the pH using Lactic Acid until pH of 3.5 to 4 is reached.</li> <li>4. Add Fragrance and Dye and mix until homogenous.</li> <li>5. Pour hot liquid into a silicone mold and allow to cool until fully set.</li> </ol>	
Physical Properties	Appearance, as is	Light straw, yellow bar
	pH, as is	3.5 - 4
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
External Comment	Marketing Notes: BCI = 89. 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 <a href="http://www.stepan.com">www.stepan.com</a> .	
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Additional  
Assistance

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

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