



Formulation

Name	2-in-1 SHAMPOO - CONDITIONING CLEANSER	
No.	1382	
Description	This 2-in-1 shampoo is using a common Sodium Lauryl Sulfate/Cocamidopropyl Betaine chassis that is easy to thicken. The hydroxyethylcellulose (CELLOSIZE™ PCG-10) is used to ensure stabilization of the emulsion. As STEPANQUAT® Soleil is a lipophilic ingredient, an emulsion type formulation is the easiest way to formulate.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight Functionality</u>
	=== Phase 1 ===	
	Deionized Water	40.48 Solvent
	CELLOSIZE™ PCG-10 (Dow Chemical) Hydroxyethylcellulose	1.00 Viscosity Modifier
	AMPHOSOL® CG-UN	20.00 Secondary Surfactant
	=== Phase 2 ===	
	STEPANQUAT® Soleil	1.50 Conditioning Agent
	STEPAN-MILD® GCC	1.00 Emollient
	Shea Butter (Hyteck) Butyrospermum Parkii (Shea) Butter	0.40 Emollient
	Cetyl Alcohol (Sasol) Cetyl Alcohol	3.0 Emulsifier
	Tocopherol (Mosselman) Tocopherol	0.1 Antioxidant
	=== Phase 3 ===	
	STEPANOL® WA-EXTRA-E	30.00 Primary Surfactant
	Citric Acid, 40% Solution	1.32 pH Adjuster
	=== Phase 4 ===	
	Euxyl K712 (Schülke & Mayr GmbH)	0.90 Preservative
	Fragrance Kiwi (V. MANE FILS)	0.30 Fragrance
	Total	100.00
Procedure	<ol style="list-style-type: none">1. Heat Deionized Water to 60°C (140°F), add CELLOSIZE™ PCG-10 then mix until gel is homogeneous.2. In a separate container, prepare phase 2.3. Add AMPHOSOL® CG-UN then introduce the melted mixture of phase 2 under agitation.4. When the formulation is homogenous, add STEPANOL® WA-EXTRA-E and Citric Acid, 40% Solution. The pH should be approximately 4.5. Begin to cool down the batch. The formulation should start to thicken.6. Once cooled to room temperature, add Euxyl K712.7. Adjust the pH if needed, and then adjust viscosity with Sodium Chloride, if required.8. At the end, add Fragrance Kiwi and mix to be sure the formulation is homogenous. <p>**Note: Euxyl K712 from Schülke & Mayr GmbH is Sodium Benzoate & Potassium Sorbate.</p>	
Physical Properties	Appearance, as is	White thick emulsion
	pH, as is	4.5
	Viscosity at 25°C, cps	25,000
Storage/	4 weeks at 20°C	Stable

Stability	4 weeks at 45°C 4 weeks at 5°C Freeze/Thaw	Stable Stable Pass
Instructions for Use	Apply a small amount to hair and rub into hair thoroughly. Rinse hair with water.	
External Comment	Marketing Notes: INCI List: Aqua, Sodium Lauryl Sulfate, Cocamidopropyl Betaine, Cetyl Alcohol, Hydroxyethylcellulose, Glyceryl Caprylate/Caprate, Dioleylethyl Hydroxyethylmonium Methosulfate, Sunflower Seed Oil Glycerides, Citric Acid, Butyrospermum Parkii (Shea) Butter, Perfume, Sodium Benzoate, Potassium Sorbate, Tocopherol	
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Revision Date: 06/08/2021 Publication Date: 06/08/2021 © 2021, Stepan Company. All rights reserved.