



# Formulation

Name	<b>PREMIUM HAIR CONDITIONER</b>	
No.	803	
Description	STEPANQUAT® ML provides this formulation with excellent conditioning properties as well as feel.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100
	Lexamine S-13 (Inolex) Stearamidopropyl Dimethyl Amine	0.5
	=== Phase 2 ===	
	STEPANQUAT® ML	2.1
	Cetyl Alcohol	1.5
	Stearyl Alcohol	1.2
	Isopropyl Palmitate (HALLSTAR® IPP)	5.0
	=== Phase 3 ===	
	Dow Corning 245 Fluid (Dow Corning) Cyclopentasiloxane	0.5
	Preservative, Dye, Fragrance	q.s.
	=== Phase 4 ===	
	Citric Acid	q.s.
	Sodium Hydroxide	q.s.
	<b>Total</b>	<b>100.0</b>
Procedure	Into a suitable vessel equipped with heating, cooling, and agitation, add Phase 1. Begin mixing. Start heating to 70-75°C. Add ingredients from Phase 2 once batch is at 70-75°C. Mix until dissolved. Emulsify for 30 minutes while maintaining the temperature between 70 - 75°C. Cool to 38 - 48°C. Add ingredients from Phase 3. Adjust pH if necessary with one of the ingredients from Phase 4.	
Physical Properties	Appearance	Thick opaque lotion
	pH, as is, at 25°C	3.5 - 4.0
	Viscosity at 25°C, cps	4000 - 5000
Storage/Stability	6 months at 25°C	Stable
	2 months at 42°C	Stable
	2 months at 50°C	Stable
Instructions for Use	Shampoo hair, apply, and rinse.	
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For Additional	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.	

## Assistance

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