



Formulation

Name	OIL-FREE CONDITIONER TREATMENT FOR HAIR	
No.	670	
Description	This product helps to replace some protein and moisture lost in hair due to chemical processing.	
Formulation	INGREDIENTS:	% by Weight
	Deionized Water	q.s. to 100.0
	Natrosol 250 HHR (Hercules) Hydroxyethylcellulose	0.50
	PEG-150 Distearate (HALLSTAR® PEG 6000 DS)	0.60
	AMMONYX® CETAC	8.00
	Panthenol (Roche)	0.30
	Crotein K (Croda) Hydrolyzed Keratin	0.20
	Crotein C (Croda) Hydrolyzed Collagen	0.10
	Preservative	q.s.
	Citric Acid	q.s.
	Sodium Hydroxide	q.s.
	Total	100.0
Procedure	Into a suitable vessel equipped with heating, cooling, and agitation capabilities, add Deionzed Water. Begin mixing. Into the vortex, sprinkle Natrosol 250 HHR. Add Sodium Hydroxide to raise pH to 7.5 - 8.0 and continue agitation until all of Natrosol 250 HHR is dissolved. Once dissolved, add enough Citric Acid to adjust pH to 4.0 - 4.5. Start heating to 70-75°C. Add PEG-150 Distearate. When dissolved, add AMMONYX® CETAC. Mix for 20 minutes at 70-75°C. Start cooling. Add Panthenol, Hydrolyzed Keratin, Hydrolyzed Collagen, and Preservative at room temperature. Adjust pH with Citric Acid.	
Physical Properties	pH, as is	4.0-4.5
	Appearance at 25°C	Clear liquid
	Viscosity at 25°C	300-500
Storage/ Stability	6 months at 25°C	Stable
	2 months at 45°C	Stable
Instructions for Use	Once a week, warm product by holding under hot running tap water. Then apply the product to dry hair. Leave in hair for 1-2 minutes. Rinse and shampoo.	
Registered Trademarks of Stepan Company	AMMONYX®	
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.	
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