



Deep-Conditioning Rinse-Out Hair Cream

Products highlighted: Florasolvs[®] PEG-150 Hydrogenated Jojoba, Floraesters[®] K-100 Jojoba, Floramac[®] 10, and Florasun[®] 90

This formula feels silky-smooth on the hair and hands during use. Comb-through of wet hair is substantially improved and the dry hair feels soft, smooth, and conditioned.

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt./wt.
A.	Deionized Water	Water	-----	q.s.
	Natrosol [®] Plus CS, Grade 330	Cetyl Hydroxyethylcellulose	Hercules, Inc.	0.50
	Propylene Glycol, USP	Propylene Glycol	The Dow Chemical Co.	2.00
	Merquat [®] 280	Polyquaternium-22	Nalco Company	3.00
	Florasolvs PEG-150 Hydrogenated Jojoba	Jojoba Oil PEG-150 Esters	Floritech	0.50
	Floraesters K-100 Jojoba	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	Floritech	1.00
B.	Lanette [®] 16	Cetyl Alcohol	Cognis Corporation	1.00
	Polawax NF	Emulsifying Wax NF	Croda, Inc.	3.00
	Floramac 10	Ethyl Macadamiate (and) Tocopherol (and) Malic Acid	Floritech	1.50
	Florasun 90	Helianthus Annuus (Sunflower) Seed Oil (and) Tocopherol	Floritech	4.00
C.	Citric Acid (20% Solution)	Citric Acid (and) Water	DSM Nutritional Products	0.70
	Fragrance	Fragrance	-----	q.s.
	Preservative	Preservative	-----	q.s.
	Color (optional)	-----	-----	q.s.
			TOTAL	100.00

Mixing Procedure

1. Heat the deionized water to 75°C with stirring and slowly add Natrosol Plus CS, Grade 330 until it is completely hydrated.
2. Mix Florasolvs PEG-150 Hydrogenated Jojoba with Floraesters K-100 Jojoba at 75°C.
3. Add this pre-mix to the deionized water with stirring at a temperature of 75-80°C. Add Propylene Glycol, USP and Merquat 280 to the mixture with stirring.
4. Mix all of the ingredients of Phase B together with stirring at a temperature of 75-80°C. Add Phase B very slowly to Phase A with rapid propeller mixing to create an emulsion.
5. Cool Phase AB to 45-50°C then add the ingredients of Phase C with continuous stirring.
6. Quickly cool the mixture to 30°C and then load tubes or containers for use.

Typical Properties: pH: 4.4
Viscosity: 128,300 cP

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of accuracy is made and the products are sold without warranty, expressed or implied and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent or in the treatment, prevention, or cure of any medical condition. (Cleared for Public Disclosure).