



a **Cargill** company

Deep-Conditioning Rinse-Out Hair Cream



Products Highlighted: *Floraesters K-100® Jojoba, Floramac® 10, and Florasun® 90*

This formula provides a silky-smooth feel to the hair. Comb-through of wet hair is substantially improved and the hair is left feeling soft, smooth, and conditioned after drying.

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Natrosol® Plus 330 CS	Cetyl Hydroxyethylcellulose	Ashland	0.50
B.	Propylene Glycol USP/EP	Propylene Glycol	Ashland	2.00
	Merquat® 280 Polymer	Polyquaternium-22	The Lubrizol Corporation	3.00
	Florasolvs® PEG-150 Hydrogenated Jojoba	Jojoba Oil PEG-150 Esters	The HallStar Company	0.50
	Floraesters K-100 Jojoba	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	Floratech	1.00
C.	Lanette® 16	Cetyl Alcohol	BASF Corporation	1.00
	Polawax NF	Emulsifying Wax NF	Croda International	3.00
	Floramac 10	Ethyl Macadamiate	Floratech	1.50
	Florasun 90	Helianthus Annuus (Sunflower) Seed Oil	Floratech	4.00
D.	Citric Acid (20% Solution)	Citric Acid (and) Water	Archer Daniels Midland Co.	0.70
	Fragrance	-----	-----	q.s.
	Preservative	-----	-----	q.s.
	Color	Color	-----	q.s.
Total				100.00

Mixing Procedure

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

Typical Properties: **pH: 4 - 5**
Viscosity: 128,300cP

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 provided without warranty, expressed or implied and upon condition that purchasers shall make their own tests to determine the suitability, stability or safety 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. INCI/trade names must be verified with each manufacturer. (Cleared for Public Disclosure)