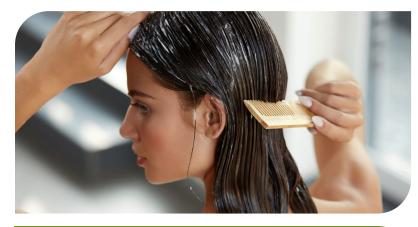
QUATERNIUM AND SILICONE FREE HAIR **CONDITIONER WITH FLORAESTERS K-100 JOJOBA**

with Floraesters K-100® Jojoba, Floramac® 10, Floralipids® Moringa Butter, and Floramac Macadamia Oil Refined



This eco-friendly conditioner is free of both quaternium compounds and silicone. Floraesters K-100 Jojoba conditions the hair by taming the frizz, protecting color, and providing manageability, while providing shine and softness to the hair.

Phase	Trade Name	INCI	Supplier	%WT
А	Deionized Water	Water		q.s.
	Versene® Na2 Crystals Chelating	Disodium EDTA	The Dow Chemical Co.	0.10
	Agent			
	Natrosol® 250 HR CS	Hydroxyethylcellulose	Ashland	0.10
В	Floramac 10	Ethyl Macadamiate	Cargill Beauty	1.00
	Floramac Macadamia Oil Refined	Macadamia Integrifolia Seed Oil	Cargill Beauty	1.00
	Floralipids Moringa Butter	Moringa Oil / Hydrogenated Moringa Oil Esters	Cargill Beauty	0.50
	Rain Forest Cupaucu Butter Refined	Theobroma Grandiflorum Seed Butter (and) Tocopherol	Beraca Ingredients	0.50
	Univul® MC80	Ethylhexyl Methoxycinnamate	BASF Corporation	1.00
	Lanette® 16	Cetyl Alcohol	BASF Corporation	2.00
	Vegarol® 1898	Stearyl Alcohol	Essential Ingredients	2.00
	Ritamulse SCG	Glyceryl Stearate (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate	Rita Corporation	5.00
	D-Alpha Tocopheryl Acetate	Tocopheryl Acetate	Cargill Beauty	0.50
	Amihope® LL	Lauroyl Lysine	Ajinomoto Co., Inc.	0.20
	SYNETH® S7 K RSPO MB Pastille	Polyglyceryl-3 Stearate	Lonza, Inc.	1.00
С	Zemea® Propanediol	Propanediol	DuPont Tate & Lyle	1.00
			BioProducts	
	Floraesters K-100 Jojoba ¹	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	Cargill Beauty	1.00
	Deionized Water	Water		q.s.
D	Preservative ²			q.s.
	Fision® KeraVeg18	Wheat Amino Acids (and) Soy Amino Acids (and) Arginine HCl (and)	Tri-K Industries Inc.	1.00
		Serine (and) Threonine		
	Fragrance ³			q.s.
Е	Deionized Water	Water		q.s.
	Pyridoxine Hydrochloride	Pyridoxine Hydrochloride	DSM Nutritional Products	0.10
	Niacinamide PC	Niacinamide	DSM Nutritional Products	0.25
F	Citric Acid (30% Solution)	Citric Acid (and) Water	Cargill Beauty	q.s.

¹ Floraesters K-100[®] Jojoba can also be directly added to and dispersed within the oil phase (Phase B).



² Preservative: One of the following two preservative options may be used:

^{1.} Microcare® PHD [INCl: Phenoxyethanol (and) Decylene Glycol (and) Propylene Glycol] supplied by Thor Specialties, Ltd.

^{2.} euxyl® PE 9010 [INCl: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke Inc.

³ Fragrance: Casablanca Lily Fragrance S10-51101 [INCl: Fragrance] supplied by Premier Specialties, Inc.

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PROCESS

- 1. Add the Versene Na2 Crystals Chelating Agent to the deionized water of Phase A with moderate propeller agitation. Heat mixture to 75-80°C.
- 2. Once the Versene Na2 Crystals Chelating Agent are completely dissolved, slowly add the Natrosol 250-HR CS to disperse. Keep mixing until the Natrosol 250-HR CS is completely hydrated.
- 3. In a separate vessel, mix all of the ingredients of Phase B at 75-80°C.
- 4. Add Phase B to Phase A with rapid propeller agitation at 75-80°C to create an emulsion.
- 5. Once the mixture is uniform, cool to 50-55°C.
- 6. In a separate vessel, mix the Floraesters K-100 Jojoba with the Zemea Propanediol of Phase C at room temperature. Add the deionized water of Phase C and mix until uniform.
- 7. Add Phase C to Phase AB with moderate propeller agitation at 50-55°C.
- 8. Add Phase D to Phase ABC in the order listed with moderate propeller agitation at 45-50°C.
- 9. In a separate vessel, mix all of the ingredients of Phase E and add to Phase ABCD with moderate propeller agitation at 45-50°C.
- 10. Add Phase F to Phase ABCDE at 45-50°C with moderate propeller agitation.
- 11. Cool to room temperature.

CHARACTERISTICS

pH: 5 - 6

• Viscosity: 100 - 133kcP



