

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
A	Deionized Water	Water	-----	q.s.
	Versene [®] Na2 Crystals Chelating Agent	Disodium EDTA	The Dow Chemical Co.	0.10
	Natrosol [®] 250 HR CS	Hydroxyethylcellulose	Ashland	0.10
B	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
C	Zemea [®] Propanediol	Propanediol	DuPont Tate & Lyle BioProducts	1.00
	Floraesters K-100 Jojoba¹	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) Serine (and) Threonine	Tri-K Industries Inc.	1.00
	Fragrance ³	-----	-----	q.s.
E	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 [INCI: Phenoxyethanol (and) Decylene Glycol (and) Propylene Glycol] supplied by Thor Specialties, Ltd.

2. euxyl[®] PE 9010 [INCI: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke Inc.

³ Fragrance: Casablanca Lily Fragrance S10-51101 [INCI: 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



PATENTS AND REGULATIONS The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force.

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