



Silicone-Free, Ultra-Conditioning Shampoo with Floraesters K-20W Jojoba

Product Highlighted: *Floraesters K-20W[®] Jojoba*



This luxurious shampoo is oil-free and silicone-free. Floraesters[®] K-20W Jojoba conditions the hair by reducing wet comb force, leaving the hair soft and manageable. 🌿* 🧴*

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Versene [®] Na2 Crystals	Disodium EDTA	The Dow Chemical Co.	0.10
	Carbopol [®] Aqua SF-1 Polymer	Acrylates Copolymer	The Lubrizol Corporation	6.50
B.	Glucamate [®] CCO	Methyl Glucose Caprate/Caprylate Oleate (and) Propanediol	The Lubrizol Corporation	2.00
	Chemccinate [®] DSLS-K Surfactant	Disodium Laureth Sulfosuccinate	The Lubrizol Corporation	12.00
	Plantaren [®] 2000 N UP	Decyl Glucoside	BASF Corporation	8.00
	Perlastan [®] L-30	Sodium Lauroyl Sarcosinate	Schill & Seilacher	8.00
	Pureact I-78C	Sodium Cocoyl Isethionate	Innospec Performance Chemicals	2.00
	Rita EGDS	Glycol Distearate	Rita Corporation	1.50
C.	Deionized Water	Water	-----	q.s.
	Zemea [®] Propanediol	Propanediol	DuPont Tate & Lyle BioProducts	0.50
	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Floratech	2.50
D.	Chembetaine [®] C Surfactant	Cocamidopropyl Betaine	The Lubrizol Corporation	8.00
E.	AquaCat [®] CG518	Guar Hydroxypropyltrimonium Chloride	Ashland, Inc.	0.70
	AMP-Ultra [®] PC 2000, Neutralizing Amine	Aminomethyl Propanol	Angus Chemical Company	q.s.
F.	Fragrance ¹	-----	-----	q.s.
	Preservative ²	-----	-----	q.s.
G.	Citric Acid, USP (30% Solution)	Citric Acid (and) Water	Archer Daniels Midland Co.	q.s.
Total				100.00

Mixing Procedure

- At room temperature, add the Versene Na2 Crystals to the deionized water of Phase A with moderate propeller agitation and mix until completely dissolved. Add the Carbopol Aqua SF-1 Polymer and mix until uniform. Start heating to 70-75°C.
- Add each ingredient of Phase B to Phase A at 70-75°C in the order listed with moderate propeller agitation and mix until uniform. Reduce heat to 60-65°C.
- In a separate vessel, mix the Floraesters K-20W Jojoba and the Zemea Propanediol of Phase C until the Floraesters K-20W Jojoba is well dispersed. Add the deionized water of Phase C and continue mixing until uniform. Add Phase C to Phase AB at 60-65°C with moderate propeller agitation and mix until uniform.
- Add Phase D to Phase ABC with moderate propeller agitation and begin cooling.
- At 50-55°C, add Phase E to Phase ABCD with moderate to low propeller agitation and continue cooling.
- At 45-50°C, add Phase F to Phase ABCDE. Continue cooling the mixture to room temperature.
- Add Phase G at 40-45°C to achieve target pH 6-7.

Typical Properties: pH: 6 - 7
Viscosity: 4400 - 7900cP

¹ Fragrance: Clean Ocean Fragrance ORC 0801665 supplied by Orchardia

² Preservative: Microcare PHD [INCI: Phenoxyethanol (and) Decylene Glycol (and) Propylene Glycol] supplied by Thor Specialties, Ltd.

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 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)