

# SILICONE-FREE, ULTRA-CONDITIONING SHAMPOO WITH FLORAESTERS K-20W JOJOBA

with Floraesters K-20W<sup>®</sup> Jojoba



This luxurious shampoo is silicone-free without compromising sensory experience. **Floraesters K-20W Jojoba** conditions the hair by reducing wet comb force, leaving the hair soft and manageable.

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized Water	Water	-----	q.s.
	Versene <sup>®</sup> Na <sub>2</sub> Crystals Chelating Agent	Disodium EDTA	The Dow Chemical Co.	0.10
	StarDesign Care	Acrylates Copolymer	Cargill Beauty	1.00
	Actigum CS 11 QD	Sclerotium Gum	Cargill Beauty	0.70
	B	Glucamate <sup>®</sup> CCO	Methyl Glucose Caprate/Caprylate Oleate (and) Propanediol	The Lubrizol Corporation
	Chemccinate <sup>®</sup> DSLS-BA Surfactant	Disodium Laureth Sulfosuccinate	The Lubrizol Corporation	12.00
	Plantaren <sup>®</sup> 2000 N UP	Decyl Glucoside	BASF Corporation	8.00
	Perlastan <sup>®</sup> 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	3.00
C	Deionized Water	Water	-----	q.s.
	Zemea <sup>®</sup> Propanediol	Propanediol	DuPont Tate & Lyle BioProducts	0.50
	<b>Floraesters K-20W Jojoba</b>	<b>Hydrolyzed Jojoba Esters (and) Water (Aqua)</b>	<b>Cargill Beauty</b>	<b>2.50</b>
D	Chembetaine <sup>®</sup> C Surfactant	Cocamidopropyl Betaine	The Lubrizol Corporation	8.00
E	AquaCat <sup>®</sup> CG518	Guar Hydroxypropyltrimonium Chloride	Ashland	0.70
F	Sodium Chloride BioXtra, ≥99.5% (AT)	Sodium Chloride	Sigma-Aldrich, Inc.	q.s.
	Fragrance <sup>1</sup>	-----	-----	q.s.
	Preservative <sup>2</sup>	-----	-----	q.s.
G	Citric Acid (10% Solution)	Citric Acid (and) Water	Cargill Beauty	q.s.

<sup>1</sup> Fragrance: Clean Ocean Fragrance ORC0801665 [INCI: Fragrance] supplied by Orchidia Fragrances

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

**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.

Formula Number: H021, Revision Date: January 2023

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with Floraesters K-20W<sup>®</sup> Jojoba (page 2)



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## PROCESS

1. At room temperature, add the Versene Na<sub>2</sub> Crystals Chelating Agent to the deionized water of Phase A with moderate propeller agitation and mix until completely dissolved.
2. Add the remaining ingredients of Phase A with homomixing agitation until completely dispersed and uniform. Shift to moderate propeller agitation and heat to 70-75°C.
3. 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.
4. 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.
5. Add Phase D to Phase ABC with moderate propeller agitation and begin cooling.
6. At 50-55°C, add Phase E to Phase ABCD with moderate to low propeller agitation and continue cooling.
7. At 45-50°C, add Phase F to Phase ABCDE. Continue cooling the mixture to room temperature.
8. Add Phase G at 40-45°C to achieve target pH 6-7.

## CHARACTERISTICS

- pH: 6 - 7
- Viscosity: 46 - 86kCp



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