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Water-Resistant Super-Substantive Sunscreen

Products highlighted: Floraesters[®] K-20W Jojoba, Floraesters Jojoba Oil, Florasolvs[®] PEG-16 Macadamia

This is a light sunscreen formula that spreads easily providing water-resistant, emollient protection to the skin while being non-greasy. This sunscreen provides low to medium SPF UV protection.

Phase	Trade Name	INCI Name	Supplier	%wt./wt.
A.	Deionized Water	Water		26.65
	Carbopol Ultrez 10	Carbomer	Lubrizol	0.20
B.	Deionized Water	Water		20.00
	Methocel (HPMC)	Hydroxypropyl Methylcellulose	Dow	0.10
	Preservative	---		Q.S.
	Versene Na2	Disodium EDTA	Dow	0.05
C.	Parsol MCX	Ethylhexyl Methoxycinnamate	DSM	7.00
	Octyl Salicylate	Ethylhexyl Salicylate	Alzo	3.00
	Escalol 567	Benzophenone-3	ISP Van Dyke	2.00
	Finsolv TN	C12-15 Alkyl Benzoate	Innospec	4.00
	Eusolex T45-D	Isononyl Isononoate (and) Titanium Dioxide (and) Aluminum Oxide (and) Simethicone	Rona	1.00
D.	Pemulen TR-1	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Lubrizol	0.25
E.	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Floratech	16.67
	Floraesters Jojoba Oil, Not Refined	Simmondsia Chinensis (Jojoba) Seed Oil	Floratech	3.33
	Deionized Water	Water		Q.S.
F.	Amp-95	Aminomethyl Propanol	Angus	0.25
	Florasolvs PEG-16 Macadamia Fragrance	PEG-16 Macadamia Glycerides Fragrance	Floratech	0.20 Q.S.
TOTAL:				100.00

Mixing Procedure:

1. Disperse the Ultrez-10 into the water of Phase A with stirring at 40-50°C.
2. Disperse the HPMC slowly into the water of Phase B with stirring. When the HPMC is fully hydrated, mix in the remaining Phase B ingredients. Add Phase B to Phase A.
3. Combine the Phase C ingredients (except for Eusolex). Heat to 50°C while stirring until all are dissolved. Add Eusolex T45-D and stir until completely dispersed. With rapid mixing, add Phase C to Phase AB.
4. Slowly add Phase D to Phase ABC.
5. Combine all Phase E components and heat to 45-50°C. When completely in solution, add to Phase ABCD. Use a homomixer to completely mix all ingredients and to create a super-rich, creamy lotion.
6. Add Phase F components to Phase ABCDE while on homomixer. Cool to room temperature.

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of their accuracy is made and the products discussed are sold 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.