



Water-in-Oil (W/O) Broad Spectrum Protection Daily Facial Moisturizer

Description: This light-feeling formulation uses Zemea[®] propanediol to maintain solubility and fluidity of the water-soluble sulisobenzone UVB/UVA absorber as the formulation water evaporates on the skin, to provide moisturization benefits, and to enhance freeze/thaw stability. The specially-coated zinc oxide is designed to offer highest levels of broad spectrum protection, transparency, and dispersibility. The W/O platform, stabilized by a PEG-free emulsifier, offers inherent water resistance. The emollient phase contains both volatile and solvent/emollient components, generating light application properties and the ability to incorporate other organic sunscreen actives.

Phase	Ingredient	INCI Name	Supplier	Function	Wt. %
A	Water	Water	-	-	39.80%
	Zemea [®] propanediol	Propanediol	DuPont Tate & Lyle Bio Products	Humectant	10.00%
	AquaSul	Sulisobenzone (Benzophenone-4)	SandreamImpact	Active	10.00%
B	SF 1202	Cyclopentasiloxane	Momentive	Emollient	15.00%
	Crodamol [™] AB	C12-15 Benzoate	Croda	Emollient	10.00%
	Zano [®] 10 Plus	Zinc Oxide (and) Triethoxycaprylylsilane	EverZinc	Active	10.00%
	Silube [®] 316	Lauryl, bis-hydroxymethyl butyl propyl ether, dimethicone (proposed)	Siltech	Emulsifier	5.00%
C	Cab-O-Sil [®] TS-610	Silica Dimethyl Silylate	Cabot	Thickener	0.20%
Total					100.00%

Procedure:

1. Mix phase A until clear and uniform.
2. Mix phase B with propeller stirring until ZnO is completely dispersed.
3. Slowly add phase A to phase B with fast propeller stirring.
4. Add phase C with propeller stirring.
5. Homogenize

Formula ACTS 20139 provided by: ACT Solutions Corp., Newark, Delaware, USA

For additional information or samples:

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