



Broad Spectrum, Water Resistant, SPF 25+ Daily Facial Moisturizer

Description: This elegant, light feeling water-in-oil (W/O) formulation spreads well, covers evenly, and has built-in water resistance, enhanced by the use of two emollients with excellent barrier characteristics. Combining organic and inorganic sunscreen actives, along with placement of the actives in both the aqueous and emollient phases, allows for a high SPF with a relatively low level of active. The formula achieves protection beyond broad spectrum with a critical wave length of 377.8nm. The success of the formulation is attributed to Zemea® propanediol keeping the water-soluble actives in solution through the evaporation process when the product is applied to the skin.

Phase	Ingredient	INCI Name	Supplier	Function	Wt. %
A	Water	Water	-	-	54.6%
	Spectrastat™	Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin	Inolex	Preservative	0.80%
	Aqua Sul	Sulisobenzone	SandreamImpact	Active	2.00%
B	Zemea®	Propanediol	DuPont Tate & Lyle	Solvent	10.00%
	Eusolex® 232	Ensulizole	EMD Performance Materials	Active	3.00%
C	Tris Amino Ultra PC	Tromethamine	Angus Chemical	Neutralizer	qs%
D	Solaveil™ XT-40	Titanium Dioxide (and) Aqua (and) Polyglyceryl-2 Caprate (and) Sucrose Stearate (and) Simmondsia Chinensis (Jojoba) Seed Oil (and) Stearic Acid (and) Alumina (and) Glyceryl Caprylate (and) Squalane	Croda	Active	3.00%
		KerrSoft AVG			
E	KerrEmul PGPR	Polyglyceryl-3 Polyricinoleate	Kerry	Emulsifier	2.50%
	Solaveil™ AT-300	Caprylic/Capric Triglyceride (and) Titanium Dioxide (and) Polyhydroxystearic Acid (and) Stearic Acid (and) Alumina	Croda	Active	3.00%
	Xperse® 201	Zinc Oxide, Caprylic/capric triglyceride, Polyhydroxystearic acid, Triethoxycaprylylsilane	EverZinc	Active	3.00%
	CosmoSurf® CE-100	Octododecyl Citrate Crosspolymer	SurfaTech	Emollient	3.00%
F	CAB-O-SIL® TS-610	Silica Dimethyl Silylate	Cabot Corporation	Thickener	0.10%
	Total				100.00%

Procedure:

1. Add (B) to (A).
2. Add C until (AB) is clear.
3. Add (D) with propeller stirring.
4. Add (ABCD) to (E) VERY SLOWLY with fast propeller stirring.
5. Add (F) with propeller stirring.

For additional information or samples:

DuPont Tate & Lyle Bio Products Customer Service

198 Blair Bend Drive
Loudon, TN 37774

Tel: +1-866-404-7933

www.duponttateandlyle.com



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