

Sun Protection Fluid

Light day protection fluid with smooth application. Based on Creasperse® UV dispersions which give high SPF without risk of sedimentation. Eospoly® UV composites provide sun protection and soft focus with an instant optical illusion of smoothness and luminosity. Natural Biomethics® Emulsifier has excellent skin compatibility as it does not disrupt skin's barrier. Alphaflow® is hypoallergenic and completely photostable emollient, ideal for sun care product as it suits even the most sensitive skin types. Dedraflow® 5 is a volatile, photostable emollient used as replacement to cyclomethicone. Creasil® IH improves the application qualities. Creanatural® BioCollagen gives skin care benefits. It is a light film former with moisture retaining properties.

Ingredients	INCI Name	Qty%	Supplier
Phase A			
Hectone® DF	Hydrogenated Polyisobutene (and) Distearidimonium Hectorite (and) Propylene Carbonate	6,40	1)
Biomethics® Emulsifier Solanum W/O	Solanum Tuberosum (Potato) Starch (and) Helianthus Annuus (Sunflower) Seed Oil (and) Hydrogenated Lecithin (and) Helianthus Annuus (Sunflower) Wax (and) Limnanthes Alba (Meadowfoam) Seed Oil (and) Xanthan Gum (and) Phenoxyethanol	4,00	1)
	PEG-10 Dimethicone	4,50	
	PEG-11 Methyl Ether Dimethicone	0,50	
	Phenoxyethanol	0,70	
Dedraflow® 5	Hydrogenated Polyisobutene	29,40	1)
Creasil® IH CG	Isohexadecane	8,00	1)
Alphaflow® 40	Hydrogenated Polydecene	2,00	1)
Phase B			
	Water	q.s	
	Glycerin	2,00	
	Disodium EDTA	0,05	
Phase C			
Creanatural® BioCollagen	Water (and) Glycerine (and) Butylene Glycol (and) Zea Mays (Corn) Starch (and) Natto Gum (and) Methylparaben (and) Chlorphenesin	5,00	1)
	Hyaluronic Acid	0,05	
	Natto Gum	0,10	
Phase D			
Creasperse® TR 14 AF 50	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	12,00	1)
Creasperse® TR 35 AF 65	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	9,50	1)
	Boron Nitride	1,00	
Eospoly® UV TR 22 HB 50	Titanium Dioxide (and) Styrene/Acrylates Copolymer (and) Methicone (and) PEG26 – PPG30 Phosphate	3,00	1)

SPF in vitro : 47,07

UVA Ratio : 0,57

Star Category : **

Critical Wavelength : 372nm

Procedure:

1. Heat up phase A to temperature of 70° C - 75° C and stir at the speed of 500-600rpm until homogenous.
2. Heat up phase B to temperature of 70° C - 75° C and stir at the speed of 500-600rpm until homogenous.
3. Add phase B into phase A under strong agitation (1000-1200rpm) and keep heated for 15 minutes.
4. Homogenize (6000rpm) the mixture (A+B) for 5 minutes and cool down to temperature below 35° C.
5. Mix ingredients in phase C together and leave to swell for 15 minutes. Add phase C and homogenize (6000rpm) for 2-3 minutes.
6. Add phase D under strong agitation (1000-1200rpm) until homogenous.

NOTE: Please note that sufficient preservative system needs to be used, we do not guarantee microbiological stability.

Suppliers:

- 1) CIT SARL/COSMO CHEM SARL

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Cosmetics Innovations & Technologies

6 rue Jules Padeloup • 28109 Dreux Cedex • FRANCE