

## High Protection SunCream

Protecting sun care product with a maximum SPF protection for very delicate skin. The product is based on a natural Biomethics® Emulsifier Solanum W/O, which is ideal for water in oil systems. The Biomethics® Emulsifier is surfactant-free and PEG-free, and therefore doesn't interrupt skin's natural barrier. Dedraflow® 5.2 is a very photostable and light lipid, which combines well with Creasperse® TR14 AF50 and Creasperse® TR35 AF65, a photostable dispersion based on transparent ultrafine TiO<sub>2</sub>. Alphaflow® 30 is a hypoallergenic emollient that suits a sensitive skin type. Siltext® Mat and Velvet are well compatible with water resistant sun care formulations, due to their hydrophobic character and excellent photostability.

Ingredients	INCI Name	Qty%	Supplier
<b>Phase A</b>			
<b>Biomethics® Emulsifier Solanum W/O</b>	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)
<b>Dedraflow® 5.2</b>	Hydrogenated Polyisobutene (and) Hydrogenated C15-19 Alkane (and) Hydrogenated C6-14 Olefin Polymers	5,00	1)
<b>Alphaflow® 30</b>	Hydrogenated Polydecene Tocopherol Acetate	10,00 1,00	1)
<b>Hectone® DF</b>	Hydrogenated Polyisobutene (and) Distearidimonium Hectorite (and) Propylene Carbonate	14,00	1)
<b>Creasperse® TR 14 AF 50</b>	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	30,00	1)
<b>Creasperse® TR 35 AF 65</b>	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	15,00	1)
<b>Phase B</b>			
	Water	q.s.	
	Glycerin	2,00	
	Disodium EDTA	0,05	
	Hexamidine Diisethionate	0,05	
	Chlorphenesin	0,20	
<b>Phase C</b>			
<b>Creanatural® BioCollagen</b>	Water (and) Glycerine (and) Butylene Glycol (and) Zea Mays (Corn) Starch (and) Natto Gum (and) Methylparaben (and) Chlorphenesin Hyaluronic Acid	5,00 0,02	1)
<b>Phase D</b>			
<b>Siltext® Mat</b>	Hydrogenated Polyisobutene (and) Dimethicone Crosspolymer	2,00	1)
<b>Siltext® Velvet</b>	Hydrogenated Polyisobutene (and) Dimethicone (and) Polyethylacrylate	1,00	1)

### Procedure:

- Heat up phase A to temperature of 60° C - 70° C under slow agitation (400rpm).
- Heat up phase B to temperature of 60° C - 70° C under slow agitation (400rpm).
- Add phase B into phase A and stir strongly (800-900rpm) while heating for 20-30 minutes.
- Homogenize(6000rpm) the mixture (A+B) for 5 minutes.
- Cool down the mixture (A+B) to temperature below 35°C.
- Add phase C and D under slow agitation (400rpm).
- Adjust the pH value to 5,30 – 5,70.

SPF in vitro : 147,8

UVA Ratio : 0,85

Star Category : \*\*\*\* Maximum

Critical Wavelength : 379 nm

### Suppliers:

1) CIT SARL/COSMO CHEM SARL

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