

Biomethics® Sun Cream (hot process)

Light and smooth W/O sun cream. Based on Biomethics® Emulsifier, which has good skin compatibility as it does not disrupt skin's barrier. It is an ideal emulsifier for even the most delicate skin types. Creanatural® LAQ and Creabase® MSO are based on the non-oxydizing Meadowfoam Seed Oil. Rich in antioxidant, Meadowfoam Seed Oil is perfect for sun care application as it is a stable natural oil with skin care benefits. Alphaflow® is an hypoallergenic and photostable emollient. Dedraflow® 5 is also hypoallergenic and photostable emollient but volatile, and therefore it can be used as replacement to cyclomethicone. Siltext® works as texture enhance leaving matte, non-greasy skin feel. Creanatural® BioCollagen is natural film former with good moisture retention. Combination of two Creasperse® UV dispersions gives high SPF and UVA protection without risk of sedimentation.

Ingredients	INCI Name	Qty%	Supplier
Phase A			
Biomethics® Emulsifier CPS W/O	Solanum Tuberosum (Potato) Starch (and) Squalane (and) Butyrospermum Parkii (Shea Butter) (and) Helianthus Annuus (Sunflower) Wax (and) Xanthan Gum (and) Hydrogenated Lecithin (and) Tocopherol (and) Phenoxyethanol	4,00	1)
Hectone® DF	Hydrogenated Polyisobutene (and) Distearidimonium Hectorite (and) Propylene Carbonate	12,00	1)
Creanatural® LAQ	Limnanthes Alba (Meadowfoam) Seed Oil (and) Squalane (and) Beta Sitosterol	3,00	1)
Creabase® MSO	Limnanthes Alba (Meadowfoam) Seed Oil (and) Cera Alba (and) Hydrogenated Meadowfoam Seed Oil	5,00	1)
	VP/Hexadecene Copolymer	2,00	
	Glyceryl Linoleate (and) Glyceryl Oleate (and) Glyceryl Linolenate	2,00	
	Tocopherol Acetate	1,00	
Alphaflow® 40	Hydrogenated Polydecene	5,00	1)
Dedraflow® 5	Hydrogenated Polyisobutene	4,00	1)
Phase B			
	Water	q.s.	
	Glycerin	2,00	
	Disodium EDTA	0,05	
	Methylisothiazolinone	0,50	
	Xanthan Gum	0,10	
Phase C			
Creanatural® BioCollagen	Water (and) Glycerine (and) Butylene Glycol (and) Zea Mays (Corn) Starch (and) Natto Gum (and) Methylparaben (and) Chlorphenesin Hyaluronic Acid	5,00	1)
		0,02	
Phase D			
Siltext® Mat	Hydrogenated Polyisobutene (and) Dimethicone Crosspolymer	3,50	1)
Phase E			
Creasperse® TR22 AF65	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	21,00	1)
Creasperse® TR35 AF65	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	12,20	1)

SPF in vitro : 124,0

UVA Ratio : 0,81

Star Category : ****

Critical Wavelength : 380 nm

Procedure:

- Heat up phase A to temperature of 70-75°C and keep under agitation until homogenous.
- Heat up phase phase B to temperature of 70-75°C and keep under agitation until homogenous.
- Add phase B into phase A and homogenize (6000rpm) for 3-5 minutes. Cool down to temperature below 35°C.
- Mix ingredients in phase C together and leave to swell for 20 minutes.
- Add phases C, D and E into the mixture (A+B) and stir carefully until homogenous. Homogenize(6000rpm) for 1-2 minutes.

Suppliers: 1) CIT SARL/COSMO CHEM SARL

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