

Baby Sun Cream SPF 50

This formulation is designed to be gentle and non-irritating so it is suitable even for babies. Alphaflow® 40 is used here as a photostable and hypoallergenic emollient. Non-oxydizing Meadowfoam Seed Oil offers skin care benefits and natural Vitamin E to protect the delicate baby skin. Biomethics® Emulsifier has good skin compatibility as it does not disrupt skin's own barrier as traditional emulsifiers do. It is completely without surfactants and PEGs. Creabase® and Hectone® DF both stabilize the emulsion. Creabase® improves water resistance and Hectone® works also as thickener. Talcpoly® HB provides smooth feel with hydrophobic surface characteristics. Creasperse® UV dispersions are stable and easy to use. Due to the branched structure, Creasperse® give even application without any risk of sedimentation.

Ingredients	INCI Name	Qty%	Supplier
Phase A			
Biomethics® Emulsifier SolanumW/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	6,00	1)
Hectone® DF	Hydrogenated Polyisobutene (and) Disteardimonium Hectorite (and) Propylene Carbonate	8,00	1)
Creabase® NTL 80°	Hydrogenated Polydecene (and) Polyethylene (and) Isohexadecane	2,50	1)
Meadowfoam Seed Oil®	Limnanthes Alba (Meadowfoam) Seed Oil	2,00	1)
Alphaflow® 40	Hydrogenated Polydecene	10,00	1)
	Glyceryl linoleate (and) Glyceryl oleate (and) Glyceryl linolenate	2,00	
	Tocopheryl acetate	0,50	
Phase B			
	Water	q.s.	
	Glycerin	12,00	
	Xanthan Gum	0,15	
	Disodium EDTA	0,05	
	Chlorphenesin	0,20	
Phase C			
	Water	2,00	
	Panthenol	1,00	
Phase D			
	Alpha bisabolol	0,50	
Creasperse® Zn 40 VS 50	Zinc Oxide (and) Squalane (and) Hydroxystearic Acid	30,00	1)
Talcpoly® WL10 HB	Talc	10,00	1)
Phase E			
	Parfum	0,20	

SPF in vitro: 61,5

UVA Ratio: 0,87

Star Category: ****

Critical Wavelength: 375nm

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 (800-900rpm) while heating for 15-20min.
4. Homogenize (6000rpm) the mixture (A+B) for 5 mins and cool down to temperature below 40°C.
5. Add phase C and phase D under agitation (400-600rpm)
6. Homogenize (6000rpm) the mixture (A+B+C+D) for 2-3min.
7. Add phase E under slow agitation (400rpm). Adjust the pH value to 5,30-5,70.

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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