

Model Recipe

Sun Block Baby Lotion SPF 20

Recipe Number: SC-DE/02/174/22

Phase	Component	INCI	%	Function
I.	EUMULGIN® VL 75	Lauryl Glucoside (and) Polyglyceryl-2 Dipolyhydroxystearate (and) Glycerin	1.0	O/W-emulsifier
	COSMEDIA® DC	Hydrogenated Dimer Dilinoleyl / Dimethylcarbonate Copolymer	2.0	Water repellent
		Potassium-Cetyl Phosphate	1.0	Co-emulsifier
	MYRITOL® 331	Cocoglycerides	12.0	Emollient
	CETIOL® CC	Dicaprylyl Carbonate	6.0	Emollient
	CETIOL® B	Dibutyl Adipate	4.0	Emollient
	EUTANOL® G 16 S	Hexyldecyl Stearate	5.0	Emollient
	COPHEROL® F 1300	Tocopherol	1.0	Active ingredient
II.		Zinc Oxide (and) Dimethicone	5.0	Pigment
		Titanium Dioxide, Alumina, Simethicone	7.0	Pigment
		Xanthan Gum	0.25	Thickener
		Magnesium Aluminum Silicate	0.75	Thickener
III.	Water	Aqua	42.95	
	Glycerin	Glycerin	10.0	Moisturizer
IV.	Cosmedia® SPL®	Sodium Polyacrylate (and) Hydrogenated Polydecene (and) PPG-5 Laureth-5	2.0	Thickener
V.	HYDAGEN® B	Bisabolol	0.05	Active ingredient
	Viskosity (mPas);Brookfield RVF,Spindel 6,10 rpm, 23°C		50,000 mPas	

Preparations in the laboratory

Melt the oily components (Phase I) at 80 - 85°C and stir.
 Add (Phase II) and disperse and homogenise (e.g.Ultra Turrax).
 Heat the water (Phase III) to 80 - 85°C and add to the oil phase while stirring.
 Stir for 15 minutes at this temperature.Add (Phase IV). Cool down while stirring.Avoid incorporation of air.
 Homogenise at 55 - 50°C by means of a suitable dispersion unit (e.g.Ultra Turax) in order to improve stability and structure.Continue cooling to 30°C. Add (Phase V) below 40°C.

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