

UV Control Ultra Protection Cream SPF50+ 1571-2.10



+

Beach use

+

Non tacky

+

For all skins and climates

Phase	Name	INCI	Supplier	%
A1	DEMINEALIZED WATER	WATER	-	35.0
	SUNSPHERES™ POWDER	STYRENE/ACRYLATES COPOLYMER	Dow	5.0
	SCHERCÉMOL™ DIS ESTER	DIISOPROPYL SEBACATE	Lubrizol	2.0
A2	SEPIVOV™ EMT10	HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	Seppic	0.4
	SATIAXANE™ CX91	XANTHAN GUM	Cargill	0.3
	PROPYLENE GLYCOL	PROPYLENE GLYCOL	-	1.0
A3	E.D.T.A. DISODIUM SALT	DISODIUM EDTA	-	0.1
A4	DEMINEALIZED WATER	WATER	-	5.0
	AMPHISOL® K	POTASSIUM CETYL PHOSPHATE	DSM Nutritional Products	0.3
B	EMULIUM® MELLIFERA MB	POLYGLYCERYL-6 DISTEARATE, JOJOBA ESTERS, POLYGLYCERYL-3 BEESWAX, CETYL ALCOHOL	Gattefossé	3.5
	CETEARYL ALCOHOL	CETEARYL ALCOHOL	BASF	0.7
	SCHERCÉMOL™ DIS ESTER	DIISOPROPYL SEBACATE	Lubrizol	2.0
	COCOATE™ BG MB	BUTYLENE GLYCOL COCOATE	Gattefossé	4.0
	PARSOL® 1789	BUTYL METHOXYDIBENZOYL METHANE	DSM Nutritional Products	3.0
	TINOSORB® S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	3.0
	UVINUL® A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	2.5
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	DSM Nutritional Products	5.0
	PARSOL® MCX	ETHYLHEXYL METHOXYCINNAMATE	DSM Nutritional Products	6.0
	PARSOL® 340	OCTOCRYLENE	Dsm Nutritional Products	5.0
	HALLBRITE® BHB	BUTYL OCTYL SALICYLATE	Hallstar	4.0
	TINOGARD® TL	BENZOTRIAZOLYL DODECYL P-CRESOL	BASF	1.0
C	ORGASOL® 2002 D.NAT.COS EXTRA	NYLON-12	Arkema	3.0
D	PRESERVATIVE	PRESERVATIVE	-	0.7
E	XIAMETER® PMX-1503 FLUID	DIMETHICONE, DIMETHICONOL	Xiameter	2.0
F	EPITEX™ 66 POLYMER	WATER, ACRYLATES COPOLYMER	Univar	2.0
G	PARFUM DOME RELAX RS59716	PARFUM	Technico-Flor	0.5
	ETHANOL 96 %	ALCOHOL	-	3.0
				100.0

Operating instructions

- Disperse SunSpheres™ Powder into water and Schercemol™ Dis Ester with a propeller, heat to 55°C and mix with Ultra-Turrax (Rotor/Stator - speed 13000 rpm) for 15 minutes.
- Premix A2 (right before the introduction in A1 otherwise the premix is too thick) then add to A1 and let the gel swell.
- Then add A3 to A1+A2, and heat A to 75 °C.
- Premix A4 and heat to 80 °C then add to A1+A2+A3.
- Heat B under stirring to 80 °C until complete solubilization.
- Add B (75 °C) to A (75 °C) slowly under mixing (1500 rpm) for 15 minutes.
- Cool under moderate mixing (800 rpm) to 35 °C.
- Add C under mixing (1200 rpm) and mix for 2 minutes.
- Add D and E and mix for 2 minutes at 1200 rpm.
- Then add F and G and mix for few minutes at 800 rpm.
- Cool down to 25-27 °C under moderate mixing (800 rpm).



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Description

Developed for very low tolerance skins, this high protection sunscreen protects from UV rays and allows a controlled and safe day at the beach. Skin is left moisturized and without any tackiness, even in humid climates, with the hydrophilized waxes of Emulium® Mellifera MB giving a perfect control of the skin at all times.

Specifications

- + Aspect:
Light yellow cream
- + pH = 6.0 ± 0.3
- + Viscosity Brookfield RV (spindle B, speed 5):
approx. 20 000 mPa.s after 24h
- + SPF *in vivo* (ISO 24444) : 79 (5 subjects)
UVA *in vitro* (ISO 24443) : 28
Photostability = 82%
Critical wavelength (ISO 24443) : 379nm
(Tests done on same formula without Alcohol and Nylon-12)
UVA / PA++++

Ingredients

- **Emulium® Mellifera MB** at 3.5% creates a stable and pleasant cream with ideal lightness for a sunscreen.
- **Cocoate™ BG MB** at 4% helps to stabilize and disperse the high amount of UV filters.
- Parsol® 1789, Tinosorb® S and Uvinul® A plus are UVA filters and Parsol® EHS, Parsol® MCX and Parsol® 340 are UVB filters.
- Sunspheres™ powder and HallBrite® BHB are SPF booster to reduce the amount of UV filters used and their influence on the sensoriality.
- Emollient Schercemol™ Dis Ester in phase A1 limits the production of foam during the dispersion of Sunspheres™ powder into water under high shear.
- Nylon-12 at 3% helps creating a soft touch upon application.
- Epitex™ 66 is a film former used to improve the water resistance and the SPF.

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