



SUNSCREEN LOTION VIVO SPF 15 6832

Formula

A	▪ Water	QSP 100%
	▪ Tetrasodium EDTA	0.20 %
	▪ Glycerin	7.00 %
B	▪ C12-15 alkyl benzoate	20.00 %
	▪ SIMULSOL 165 (PEG-100 stearate & Glyceryl stearate - SEPPIC)	2.10 %
	▪ MONTANOV S (Cocoglucoside and coconut alcohol - SEPPIC)	0.90 %
	▪ Ethylhexyl methoxycinnamate - <i>Octinoxate</i>	5.00 %
C	▪ Cyclomethicone	5.00 %
	▪ SEPIGEL 305 (Polyacrylamide and C13-14 isoparaffin and Laureth-7 - SEPPIC)	1.50 %
D	▪ Methylene bis benzotriazolyl tetramethylbutylphenol - <i>TINOSORB™</i>	8.00 %
	▪ Citric acid	QS PH5.5
E	▪ SEPICIDE HB (Phenoxyethanol/ Methylparaben/ Ethylparaben/ Propylparaben/ Butylparaben - SEPPIC)	0.30 %
	▪ SEPICIDE CI (Imidazolidinyl urea - SEPPIC)	0.20 %
	▪ DL α tocopherol	0.05 %
	▪ Fragrance	0.30 %

Procedure

Heat aqueous phase to 80°C. Add EDTA AND glycerin. Separately heat fatty phase to 75°C. Introduce this fatty phase on the aqueous one then emulsify 5' (4KG TRIMIX™ - rotor stator). At this step introduce the silicon oil and the SEPIGEL 305 while continuously homogenizing for 5'. Begin to cool under moderate stir and add pre-acidified TINOSORB™ at approx. 50°C. Homogenize again for 4'. Finally add preservatives and fragrance.

Comments

SIMULSOL 165 Self emulsifying base. Can be used synergistically with any emulsifier of MONTANOV range in order to produce smooth and stable creams.

MONTANOV S Glucolipid co-emulsifier in harmony with nature. The combination of SIMULSOL 165 / MONTANOV S makes it possible to guarantee the preservation of a smooth texture over time. This combination facilitates the formulation of sun care products that are stable in terms of texture, dispersion of sunscreens, protection factor, etc.



SEPIGEL 305

Thickening and emulsifying agent in liquid form. Very easy to use (no predispersion or neutralization). SEPIGEL 305 perfectly stabilizes emulsions against high temperatures.

Characteristics

Appearance	white lotion
pH	approx. 7
Viscosity	6,500 mPa.s BROOKFIELD LV 6rpm
Stability	Stable at room temperature/40°C/50°C Stable after freeze-thaw cycles -5/+40°C

Assesment

Vitro SPF (measured after 1 month) : 22 ±5 (% UVB absorption =95 - % UVA absorption =86) - star category ☆☆☆

(protocol SEPPIC 57CO033, vitro skin®, spectrophotometer LABSPHERE®)

vivo SPF (measured after 1 month) : 15 (5 volunteers- report DERMSCAN 1010320)

Notes

C12-15 alkyl benzoate (supplied by SEPPIC in some countries, ask us)

Cyclomethicone : DC345 (DOW CORNING)

Fragrance: APHRODIS X010.029 (QUEST)

Methylene bis benzotriazolyl tetramethylbutylphenol : TINOSORB M (CIBA)- NB : 20% TINOSORB M=10% in active sunfilter - the formulation do contain 4% active matter of this sunfilter.

6832 – SEPPIC – A0207

Since this formula has not been the object of a toxicological study, the use and handling of the products proposed is purely indicative and SEPPIC accepts no responsibility for their use by another party.