



SUN LOTION VIVO SPF 15 6798

Formula

A	▪ SIMULSOL 165 (<i>Glyceryl stearate and PEG-100 stearate - SEPPIC</i>)	2.10 %
	▪ MONTANOV S (<i>Coco-glucoside and Coconut alcohol - SEPPIC</i>)	0.90 %
	▪ C12-C15 alkyl benzoate	20.00 %
	▪ Glycerin	7.00 %
	▪ Tetrasodium EDTA	0.20 %
	▪ Ethyl hexyl methoxycinnamate - <i>octinoxate</i>	6.00 %
	▪ Benzophenone-3 - <i>oxybenzone</i>	4.00 %
B	▪ SEPIGEL 305 (<i>Polyacrylamide/C13.14 Isoparaffin/Laureth-7 - SEPPIC</i>)	1.50 %
	▪ Cyclomethicone	5.00 %
C	▪ Water	QS 100%
D	▪ SEPICIDE HB (<i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butylparaben - SEPPIC</i>)	0.30 %
	▪ SEPICIDE CI (<i>Imidazolidinyl urea - SEPPIC</i>)	0.20 %
	▪ DL alpha tocopherol	0.05 %
	▪ Fragrance	0.30 %
	▪ Sodium hydroxyde	qs pH7

Procedure

Heat A to 75°C then introduce B , with slowly mixing. Heat C to 75°C. Emulsify A+B in C, start emulsifying for a few minutes with a rotor/stator turbine.

Slowly continue mixing and cooling down. At 40°C, add the components of phase D.

Comments

SIMULSOL 165 Autoemulsifying base.

MONTANOV S A glucolipid emulsifier of vegetable origin which is particularly performant with sun filters.
The association SIMULSOL 165 / MONTANOV S warrants the maintenance of a soft texture through time.

SEPIGEL 305 A thickening and emulsifying agent, easy to use and ideal for fluid emulsions

SEPICIDE HB / CI Preservative.

Characteristics

Appearance White fluid milk.
pH About 7



Viscosity About 11,000 mPa.s BROOKFIELD LV3 6rpm.
Stability Stable at RT/40°C and after freeze-thaw cycles -5 / +40

Evaluation

SPF stable over time - in vitro (after 1 month/ 3 months/ 6 months/ 1 year) : 17 ± 2 / 16 ± 2 / 17 ± 3 / 17 ± 2 / 17 ± 3
(SEPPIC method 57CO033 : vitroskin®, spectrophotometer LABSPHERE®)

SPF - in vivo (after 1 month) : 16 ± 4
(5 volunteers – report IEC ref 00164RD)

Notes

Cyclomethicone: DC345 (DOW CORNING)
Fragrance : APHRODIS X010.029 (QUEST)
Ethyl hexyl methoxycinnamate: octinoxate UVINUL MC80 (BASF)
Benzophenone-3: oxybenzone UVINUL M40 (BASF)

6798 – 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.