



HIGH PROTECTION SUN CREAM SPF 30 – BROAD SPECTRUM 6805

Formula

	<ul style="list-style-type: none">• SIMULSOL 165 (<i>Glyceryl stearate and PEG-100 stearate - SEPPIC</i>)	3.20 %
A	<ul style="list-style-type: none">• MONTANOV S (<i>Coco-glucoside and Coconut alcohol - SEPPIC</i>)• Diisopropyl adipate• Glycerin• Ethyl hexyl methoxycinnamate• Octocrylene• Butyl methoxy dibenzoylmethane	1.30 % 10.00 % 7.00 % 7.50 % 10.00 % 2.00 %
B	<ul style="list-style-type: none">• SEPIGEL 305 (<i>Polyacrylamide/C13.14 Isoparaffin/Laureth-7 - SEPPIC</i>)• Cyclomethicone	1.20 % 5.00 %
C	<ul style="list-style-type: none">• PECOSIL PS100 (<i>Dimethicone copolyol PEG-7 phosphate - PHOENIX</i>)• Tetrasodium EDTA• Xanthan gum• Magnesium aluminium silicate• Water	0.50 % 0.20 % 0.15 % 1.00 % QSP 100%
D	<ul style="list-style-type: none">• SEPICIDE HB (<i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butylparaben - SEPPIC</i>)• DL alpha tocopherol• Fragrance• Tromethamine	1.00 % 0.05 % 0.30 % qs pH

Procedure

Melt ingredients in A at 75°C. Disperse the silicate then the xanthan gum into the water. Heat the water phase to 75°C and add PECOSIL. Introduce A in C then start homogenizer. Introduce ingredients in B and continue homogenization step for few minutes. Allow to cool under moderate stir and at 40°C introduce ingredients in D. Adjust final pH if necessary.



Comments

SIMULSOL 165	Self emulsifying base.
MONTANOV S	Glucolipid 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.
PECOSIL PS100	A coemulsifier with high dispersing power. Ideal for sun care formulas.
SEPIGEL 305	Thickening and emulsifying agent in liquid form. Very easy to use (no predispersion or neutralization). Provides a soft, non-sticky feel.
SEPICIDE HB	Preservatives.

Characteristics

Appearance	white emulsion.
pH	Environ 6.5
Viscosity	approx 100.000 mPa.s BROOKFIELD LV4 6rpm
Stability	Stable at RT/40°C/ 50°C and after freeze-thaw cycles -5 / +40°C (M1) Stable when centrifuged 3000rpm 20' 50°C

Assessment

SPF - in vitro (measured after 1 month) : 37 ± 6
SPF - in vitro (measured after 3 months) : 37 ± 7
SPF - in vitro (measured after 6 months) : 35 ± 5
(protocol SEPPIC 57CO033, vitro skin®, spectrophotometer LABSPHERE®)

SPF - in vivo (measured after one month) : 28 ± 2
(5 volunteers - report DERMSCAN 100 691)

Notes

Cyclomethicone: DC345 (DOW CORNING)
Fragrance : VAHINE X010.030 (QUEST)
Ethyl hexyl methoxycinnamate = octinoxate: UVINUL MC80 (BASF)
Octocrylene : UVINUL N539T
Butyl methoxy dibenzoyl methane = avobenzone : PARSOL 1789 (GIVAUDAN ROURE)

6805 – SEPPIC – A0011

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.