

ORGA-MINERAL SUN SPRAY

SPF_{VIVO}10 BROAD SPECTRUM



•Sprayable O/W white emulsion

•Packaging: Spray

•Montanov L allows to formulate sprayable sun care formulas with a soft and light skinfeel.

•Simulgel EG helps to stabilize UV filters and forgives soft and light skinfeel too.



EU06773C - 1305

Formula

A	Caprylic / Capric Triglyceride	7,00 %
	Ethylhexyl Methoxycinnamate	8,50 %
	Butyl Methoxydibenzoylmethane	1,50 %
B	SIMULGEL™ EG	0,70 %
C	MONTANOV™ L	2,50 %
	Tetrasodium EDTA	0,05 %
	Aqua/Water	Up to 100 %
D	SEPICIDE™ HB	1,00 %
	DL Alpha Tocopherol	0,05 %
	Parfum	0,10 %

Procedure

(Dumek -Rotor-stator)

Heat A to 75° C then add B. Add MONTANOV L in hot water (75° C: Phase C) and continue heating until the emulsifying agent is completely dissolved. Add A + B in C, start emulsifying for few minutes with a rotor/stator turbine when all the phases are incorporated. Slowly continue to mix and eventually cool the mixture down. At 40° C, add the components of phase D.

Characteristics

Appearance	white fluid emulsion
pH	about 7
Viscosity at 45° C	about 2,500 mPa.s BROOKFIELD LV2 sp.6
Stability	Stable at RT/40° C/ 50° C and after freeze-thaw cycles -5 / +40

Raw materials from SEPPIC

MONTANOV™ L

C14-22 Alcohols and C12-20 Alkylglucoside

Glucolipid emulsifier in harmony with nature. Montanov™ L is really useful to synthesize fluid formulas no matter the nature or the quantity of fatty phase used. It allows to stabilize emulsions, and has a strong moisturizing power since it promotes liquid crystals which prevent the skin from dehydration (efficacy proven in vivo).

SIMULGEL™ EG

Sodium Acrylate/Acryloyldimethyltaurate Copolymer and Isohexadecane and Polysorbate 80

Thickening and emulsifying agent in the form of liquid, this polymer is ready for use (neither pre-dispersion nor neutralization). Softness and lightness of touch.

SEPICIDE™ HB

Phenoxyethanol & Methylparaben & Ethylparaben & Propylparaben & Butylparaben

Preservative

The microscopically observation with polarized light shows off liquid crystals.	
SPF	SPF in vitro (measured at M1): 10 ± 1 Star category ☆☆☆ (57CO033 method, vitro skin®, <small>spectrophotometer LABSPHERE®)</small> SPF in vivo (measured at month 1): 9 ± 1 <small>(5 volunteers – report DERMSCAN 100 691)</small>
Rheological study : Estimated viscosity under high shear rate (around 2000 to 5000s ⁻¹)	15 to 20 mPa.s (flow curve – cone 4cm 2° - 25° c) Thanks to that very low viscosity under high shear (according to the shear rate applied by the spray nozzle), sprayability of that formula is excellent.
Sprayability (57CO036)	3879 mm ²

Other raw materials...

- Fragrance: **VANIPATCH NATFLOR (TECHNICO F)**
- Ethyl Hexyl Methoxycinnamate = octinoxate: **UVINUL MC80 (BASF)**
- Butyl methoxy dibenzoylmethane = avobenzene: **PARSOL 1789 (GIVAUDAN ROURE)**