



ORGA-MINERAL SUN SPRAY
SPF_{VITRO} 50 & WATER RESISTANT
7102

Sprayable O/W emulsion, with a high level of internal phase (50%), illustrating the high emulsifying capacity of Montanov 82.
Thanks to a combination chemical filters and mineral sunscreen (at 20%), this water-resistant spray provides a high SPF in vitro >50.

Formula

A	<ul style="list-style-type: none">• MONTANOV™ 82 (<i>Cetearyl Alcohol and Coco-glucoside – Seppic</i>)• C12-15 alkyl benzoate• Octocrylene• Ethylhexyl Methoxycinnamate• Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine• Dimethicone	2.00 % 17.00 % 6.00 % 6.00 % 3.00 % 3.00 %
B	<ul style="list-style-type: none">• SIMULGEL™ INS 100 (<i>Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer and Isohexadecane and Polysorbate 60 – Seppic</i>)	0.50 %
C	<ul style="list-style-type: none">• Cyclopentasiloxane• SEPIESOFT™ SP (<i>Polymethyl Methacrylate and Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer and Isohexadecane – Seppic</i>)• Titanium Dioxide and Isohexadecane and Triethylhexanoin and Aluminum Stearate and Alumina and Polyhydroxystearic Acid	5.00 % 0.50 % 5.40 %
D	<ul style="list-style-type: none">• Water	Up to 100 %
E	<ul style="list-style-type: none">• Methylene bis-Benzotriazolyl Tetramethylbutylphenol• Citric Acid 25%	10.00 % Qs pH 5.5 for phase E
F	<ul style="list-style-type: none">• AQUAXYL™ (<i>Xylitylglucoside and Anhydroxyxylitol and Xylitol – Seppic</i>)• Tocopherol• EUXYL™ PE9010 (<i>Phenoxyethanol and Ethylhexylglycerin – Schulke</i>)• Fragrance	3.00 % 0.05 % 1.00 % 0.20 %

Manufacturing Procedure (Trimix – 7 kg)

Heat D in the main tank. Heat A separately to 80°C and introduce it onto D then mix. Weigh and add B to the main tank and emulsifier by homogenizing for several minutes. Weigh and add C to the main tank and cool down to 60°C then to 40°C always under stirring. At 40°C, add E and F then mix for several minutes. Cool down to 20°C under gentle stirring.

Comments

MONTANOV™ 82 Glucolipid emulsifier in harmony with nature. It facilitates the formulation of sun care products that are stable in terms of texture, dispersion of sunscreens, protection factor, etc. Stable emulsions can be formulated with only 1% MONTANOV™ 82. MONTANOV™ 82 is especially well-suited for formulations with a high concentration of active ingredients.

**SIMULGEL™ INS100**

Thickening and emulsifying agent in very easy to use liquid form (no pre-dispersion or neutralization). Provides a sensation of freshness followed by a melting effect on contact with the skin. It leaves a feeling of velvety softness. SIMULGEL NS perfectly stabilizes emulsions against high temperatures. It's perfectly adapted for sprayable emulsion.

SEPISOFT™ SP

SEPISOFT™ SP is a multifunctional powder ; easily dispersible in aqueous & oil-based medium, the SEPISOFT™ SP offers in first a powdery softness and a silky finish to all your formulas, liquids, solids or powders.

AQUAXYL™

New "AQUACONCEPT " technology : thanks to an harmonization of the skin's hydrous flow, AQUAXYL™ moisturizes and restructures the skin ; Water reserves are instantly boosted and water loss is reduced (in vitro and in vivo proven efficacy) for a more supple and resilient skin !"

Characteristics

Appearance	Fluid and ivory emulsion
pH after 1 month at RT	7.3
Viscosity after 1 month at RT	2920 mPa.s BROOKFIELD LV speed
Viscosity after 1 month at 45°C	505 mPa.s BROOKFIELD LV speed
Viscosity recovery at RT (after 1 month at 45°C)	3500 mPa.s BROOKFIELD LV speed
Stability	> M1 at RT and 45°C Stable after 18h at -18°C

Evaluation

In vitro method – measurement of sun protection factor 57 CO 033 labsphère	SPF (standard deviation)	56 (4.6)
	Ratio UVa/UVb	0.8
	λc	382 nm
	Boots star rating	****
	Yield (SPF/% active sub. of filters)	255%
Method measurement of water-resistance 57 CO 048	% of weight lose	19% water-resistant

Notes

Dimethicone : DC 200/350 (Dow Corning)
 Cyclopentasiloxane : DC245 (Dow Corning)
 Octocrylene : Eusolex OCR (Merck)
 Ethylhexyl Methoxycinnamate: Uvinul MC 80 (BASF)
 Methylene Bis-Benzotriazolyl Tetramethylbutylphenol : Tinosorb M (Ciba)
 Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine : Tinosorb S (Ciba)
 Titanium Dioxide and Isohexadecane and Triethylhexanoin and Aluminum Stearate and Alumina and Polyhydroxystearic Acid : Solaveil CT-200 (Uniqema)
 Fragrance : fleur de tiarée (Technico flor)

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