SEPPIC

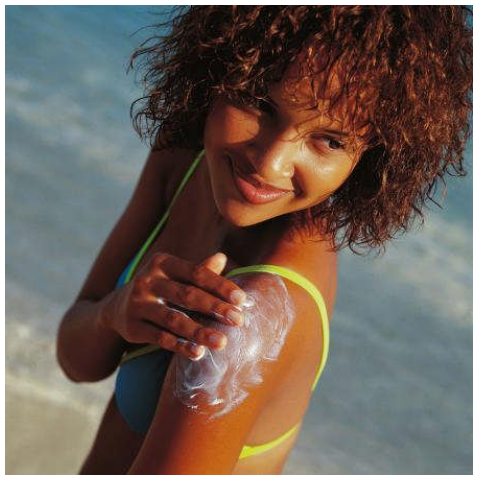
EU07102A

ORGA-MINERAL SUN SPRAY SPF$_{VITRO}$50 & WATER RESISTANT

O/W Emulsion

- « Sprayable » solar emulsion
- Packaging: spray bottle

- Waterproof
- SPF $_{in\ vitro}$ > 50
- Association of 20% of mineral sunblocks and chemical filters
- 50% of fatty phase is perfectly stabilized thanks to Montanov™ 82
- Aquaxyl™ moisturizes the skin



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Formula

A	**MONTANOV™ 82**	**2.00%**
	C12-15 alkyl benzoate	17.00%
	Octocrylene	6.00%
	Ethylhexyl Methoxycinnamate	6.00%
	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.00%
	Dimethicone	3.00%
	Tocopherol	0.05%
B	Aqua/Water	Qsp 100%
C	**SIMULGEL™ INS 100**	**0.50%**
	SOLAGUM™ AX	**0.10%**
D	Cyclopentasiloxane	5.00%
	Titanium Dioxide & Isohexadecane & Triethylhexanoin & Aluminum Stearate & Alumina & Polyhydroxystearic Acid	5.40%
E	Methylene bis-Benzotriazolyl Tetramethylbutylphenol	10.00%
	Citric Acid 25%	Qs pH 5.5 pour phase E
F	**AQUAXYL™**	**3.00%**
	Phenoxyethanol & Ethylhexylglycerin	1.00%
	Parfum/Fragrance	0.20%

Procedure

TRIMIX 7kg

Add B to the main tank and heat at 80° C. Weigh fatty phase and heat at 80° C and add it to the main tank. Homogenize with rotor stator. Add C and homogenize with rotor stator. Add D 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 with rotor stator. Cool down to 20° C under gentle stirring.

Characteristics

Appearance	Fluid and ivory emulsion
pH	7.5
Viscosity after 1 month at RT	1 320 mPa.s BROOKFIELD LV2 sp.6
Viscosity after 1 month at 45° C	1 140 mPa.s BROOKFIELD LV2 sp.6
Viscosity recovery at RT *(after 1 months at 45° C)*	1 380 mPa.s BROOKFIELD LV2 sp.6
Stability	> M1 at RT and 45° C

Raw materials from SEPPIC

MONTANOV™ 82

Cetearyl Alcohol and Coco-glucoside

Glucolipid emulsifier in harmony with nature. 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. In combination with the other grades of the Montanov™ range, it can be used to modulate the texture and flexibility of the emulsions as desired. Montanov™ 82 is useful to obtain thick lotions with rich and smooth texture.

SIMULGEL™ INS 100

Hydroxyethyl Acrylate/Sodium Acryloydimethyl Taurate Copolymer and Isohexadecane and Polysorbate 60

Thickening and emulsifying agent in very easy to use liquid form (neither pre-dispersion nor 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.

SOLAGUM™ AX

Acacia Senegal Gum & Xanthan Gum

Combination of thickening polymers from vegetable origin validated by ECOCERT®. Eco-friendly product developed in accordance with sustainable development. Can be used with hot or cold process.

AQUAXYL™

Xylitylglucoside and Anhydroxyxylitol and Xylitol

Aquaxyl™ moisturizes and restructures the skin by harmonizing the hydric flow of the skin. Water reserves are instantly boosted and water loss is reduced (in vitro and in vivo tests prove this efficacy).

Other raw materials...

- C12-15 Alkyl benzoate : **C12-15 Alkyl benzoate (Stearinerie Dubois)**
- Octocrylene : **Eusolex OCR (Merck)**
- Ethylhexyl Methoxycinnamate: **Uvinul MC 80 (BASF)**
- Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine : **Tinosorb S (Ciba)**
- Dimethicone : **DC 200/350 (Dow Corning)**
- Tocopherol: **DL α Tocopherol (BASF)**
- Cyclopentasiloxane : **DC245 (Dow Corning)**
- Titanium Dioxide and Isohexadecane and Triethylhexanoin and Aluminum Stearate and Alumina and Polyhydroxystearic Acid : **Solaveil CT-200 (Croda)**
- Methylene Bis-Benzotriazolyl Tetramethylbutylphenol : **Tinosorb M (BASF)**
- Citric Acid : **Citric Acid 25% (MERCK)**
- Phenoxyethanol & Ethylhexylglycerin: **Euxyl PE9010 (Schulke & Mayr)**
- Fragrance : **fleur de tiarée (Technico flor)**

**** Our stability protocols are available at your request.***