



## SUNSCREEN MILK 85209G

**Combining chemical filters and inorganic sunscreens  
(Calculated SPF 30+, PA+++)**

### Formula

A	• Cetearyl alcohol	0.50%
	• <b>SENSANOV™ WR</b> (C20-22 Alkyl phosphate and C20-22 alcohols - SEPPIC)	1.00%
	• <b>MONTANOV™ 82</b> (Cetearyl alcohol/coco-glucoside - SEPPIC)	2.00%
	• <b>LANOL™ 99</b> (Isononyl Isononanoate – SEPPIC)	2.00%
	• Ethylhexyl methoxycinnamate	6.00%
	• Octocrylene	4.00%
	• Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1.00%
	• Triethanolamine	0.12%
B	• C12-15 alkyl benzoate	8.00%
	• Titanium dioxide	4.00%
C	• Water	Up to 100%
	• Glycerine	3.00%
	• Xanthan gum	0.15%
	• Tetrasodium EDTA	0.10%
	• <b>ORAMIX™ CG 110</b> (Caprylyl capryl glucoside – SEPPIC)	0.50%
D	• Cyclomethicone	2.00%
E	• <b>SIMULGEL™ FL</b> (Hydroxyethylacrylate/Sodium Acryloyldimethyltaurate Copolymer and Isohexadecane and Polysorbate 60 - SEPPIC)	1.50%
F	• Methylene bis-benzotriazolyl tetramethylbutylphenol (50%)	5.00%
	• Citric acid 25%	0.04%
G	• dl- α -Tocopheryl Acetate	0.50%
	• <b>EUXYL™ PE9010</b> (Phenoxyethanol and Ethylhexylglycerin – SCHULKE)	1.00%
	• Fragrance	0.10%

### Manufacturing Procedure (Lab – Silverson Rotor Stator – 300g)

1.Disperse TiO<sub>2</sub> in C12-15 alkyl benzoate oil and mill to uniform. 2.Melt part A at 85°C and stir uniformly. Then add part B with stirring by a spatula. Keep the temperature 80°C. 3.Mix part C well and heat at 85°C. 4.Add part D into A+B, introduce C to A+B+D with stirring by a spatula, then start Silverson 4000rpm 3'. 5.Introduce E slowly with homogenization 4000rpm for 4'. 6.Cool down without water bath with stirring at 100rpm. 7.Adjust pH of F about 7.2 and add it in the emulsion at 40°C. 8. Add part G. 9. Stop stirring at 30°C.

### Comments

**MONTANOV™ 82** 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.

SEPPIC SA  
33(0) 1 55 91 57 00

SEPPIC Inc  
1 973 882 5597

SEPPIC UK Ltd  
44 208 577 8800

SEPPIC Italia Srl  
39 02 38009110

SEPPIC Asia Singapore  
65 6278 6711

Givaudan Lavirotte SA  
33(0) 4 78 61 55 00

SEPPIC China  
86(21) 64 66 01 49

SEPPIC GmbH  
49(0) 220 3890 3100 32 3 250 3911

SEPPIC Belgium NV



#### SENSANOV™ WR

Versatile phosphate anionic emulsifier effective at low dosage (1 to 3%) Provides a feeling of lightness followed by the sensation of a matt velvety veil which slowly envelops the skin. Finally SENSANOV™ emulsions leaves the skin supple with a long lasting sensation of comfort. This protective film sensation is reflected invivo by a waterresistant effect for the development of sun care formulations.

#### SIMULGEL™ FL

Ready-to-use HSD polymer in liquid form (no dispersion, no neutralization). It can be used at room temperature and over a wide range of pH by simple dilution in water under low shear. At low use level, SIMULGEL™ FL allows to stabilize and texturize extra-fluid formulations including those which contain electrolytes and preservatives.

#### ORAMIX™ CG110

Non-ionic surfactant from vegetable origin. It is an ideal solubilizing agent for foaming products because it solubilizes essential oils, fragrances and preservatives but also boosts foam volume. Its mild cleansing effect is interesting for the formulation of make-up removers, especially lotions. Particularly suitable to help emulsification and dispersion in cream-gel.

### Characteristics

Appearance	Light yellow fluid emulsion
pH	7.6
Viscosity at RT	16,400 mPa.s BROOKFIELD LV4 12rpm
Viscosity after 1 month at 48°C	8,800 mPa.s BROOKFIELD LV4 12rpm
Viscosity recovery (after 1 month at 48°C)	16,800 mPa.s BROOKFIELD LV4 12rpm
Stability	> M1 at room temp., -18°C and 48°C > M1 after freeze-thaw cycles at -18 / +48°C Stable when centrifuged at 37°C 30' at 3000 rpm

### Notes

Ethylhexyl methoxycinnamate : Uvinul MC-80 (BASF)  
Octocrylene : Neo Heliopan 303 (Symrise)  
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine: Tinosorb S (Ciba)  
Titanium dioxide: MT-100TV (Tayca)  
Methylene bis-benzotriazolyl tetramethylbutylphenol (50%): Tinosorb M (Ciba)  
Cyclomethicone: Dow Corning 345 (Dowcorning)  
Xanthan gum : Rhodicare T (Rhodia)  
Fragrance : Frag61303658 (Drom)

### 85209G– SEPPIC – 0837A

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