



SUNSCREEN CREAM 85106G

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

Formula

A	• Cetearyl alcohol	2.00%
	• SENSANOV™ WR (C20-22 Alkyl phosphate and C20-22 alcohols - SEPPIC)	1.00%
	• MONTANOV™ 82 (Cetearyl alcohol/coco-glucoside - SEPPIC)	2.00%
	• LANOL™ 99 (Isononyl Isononanoate – SEPPIC)	2.00%
	• Ethylhexyl methoxycinnamate	6.00%
	• Octocrylene	4.00%
	• Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1.00%
	• Triethanolamine	0.13%
B	• C12-15 alkyl benzoate	8.00%
	• Titanium dioxide	4.00%
C	• Water	Up to 100%
	• Glycerine	4.00%
	• Xanthan gum	0.20%
	• Tetrasodium EDTA	0.10%
	• ORAMIX™ CG 110 (Caprylyl capryl glucoside – SEPPIC)	0.50%
D	• Cyclomethicone	3.00%
E	• SIMULGEL™ SMS 88 (Sodium Acrylate/Acryloyldimethyltaurate/Dimethylacrylamide Crosspolymer (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%
	• EUXYL™ PE9010 (Phenoxyethanol and Ethylhexylglycerin – SCHULKE)	1.00%
	• Fragrance	0.10%

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

1.Disperse TiO₂ 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.

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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™ SMS 88

Thickening and emulsifying agent in liquid form. Very easy to use (no predispersion or neutralization). SIMULGEL™ SMS88 can be used to emulsify all types of oil phase without heating, producing a white appearance with a rich skin feel and a soft lasting veil, ideal for “cocoon” concept. Compatible with D.H.A. and efficient with high level of solvents, SIMULGEL™ SMS 88 is also an ideal partner for your hair care and self-tanning projects.

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 cream
pH	7.4
Viscosity at RT	50,800 mPa.s BROOKFIELD LV4 6rpm
Viscosity after 1 month at 48°C	19,900 mPa.s BROOKFIELD LV4 6rpm
Viscosity recovery (after 1 month at 48°C)	55,400 mPa.s BROOKFIELD LV4 6rpm
Stability	> M1 at room temp., -18°C and 48°C > M1 after freeze-thaw cycles at -18 / +48°C

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)

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