

WATER PROOF SUNCREAM - only chemicals - SPF 50+

Ref. E11/O-0249/07

TRADE NAME (INCI)	FUNCTION	SUPPLIER	% w/w
A			
Massocare PEG30 PHS (PEG-30 Dipolyhydroxystearate)	<i>polymeric w/o emulsifier</i>	(1)	3.50
BRB 6341 (PEG-10 Dimethicone)	<i>w/Si and w/o emulsifier, stabilizer</i>	(2)	1.00
Finsolv TPP (C12-15 Alkyl Benzoate, Dipropylene Glycol Dibenzoate, PPG-15 Stearyl Ether Benzoate)	<i>emollient</i>	(3)	8.00
Saemol 99 (Isononyl Isononanoate)	<i>emollient</i>	(4)	3.00
Moringa Oil (Moringa Oleifera Seed Oil)	<i>skin repairing, soothing, wound healing</i>	(5)	2.00
Vida-Care USB-50+ (Octocrylene, Ethylhexyl Methoxycinnamate, Ethylhexyl Salicylate, Ethylhexyl Triazone, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Di-C12-13 Alkyl Malate, Diisopropyl Adipate)	<i>broad spectrum UV-sunscreen</i>	(6)	30.00
Natura-Tec Hydrogenated Castor Oil (Hydrogenated Castor Oil)	<i>thickener</i>	(7)	0.30
CosmoSurf DDG-20 (Bis-Octyldodecyl Dimer Dilinoleate/Propanediol Copolymer)	<i>film-forming</i>	(8)	2.00
Tocobiol c (Tocopherol (mixed), β -sitosterol, Squalene)	<i>anti-oxidant</i>	(9)	0.15
B			
Water (Aqua)	<i>solvent</i>		42.55
Palmera G995E MB (Glycerin)	<i>humectant</i>	(10)	3.00
Genecare OSMS BA (Betaine)	<i>moisturiser</i>	(11)	4.00
MgSO₄. 7 H₂O (Magnesium Sulfate)	<i>stabilizer</i>		0.80
Natrlquest E-30 (Trisodium Ethylenediamine Disuccinate)		(3)	0.10
C			
Geogard ECT (Benzyl Alcohol, Salicylic Acid, Glycerin, Sorbic Acid)	<i>preservative</i>	(12)	0.60

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APPEARANCE

ivory shiny lotion

SPECIFICATIONS**Viscosity:** 1.895 mPa·s (Brookfield LVT, Spindle A, 12 rpm) 22°C**pH:** ---**PROCEDURE (hot process)**

1. Heat phases A and B to 80°C
2. Add phase C to B just before to make the emulsion
3. Add phase BC to A whilst stirring intensively (>450 rpm)
4. Homogenize ABC for 2 minutes (Silverson : 4.000 rpm)
5. Allow to cool down to room temperature keeping intensive stirring (>450 rpm)

KEY INGREDIENTS**Massocare PEG30 PHS** - polymeric w/o emulsifier for milks and creams, light textures**Finsolv TPP** - synergistic emollient blend with exceptional sunscreen solubilisation**Vida-Care USB-50+** - "all-in-one" optimized sunscreen**CosmoSurf DDG-20** - naturally derived breathable film former with dispersion capabilities**Genecare OSMS BA** - ecocert-compliant moisturiser, organic osmolyte**SUPPLIERS**

(1) Cial. Química Massó - (2) BRB International - (3) Innospec - (4) Saequim - (5) Ephylla - (6) KCC Basildon - (7) Natura-Tec - (8) Surfatech - (9) BTSA
(10) KLK Oleo - (11) DuPont - (12) Lonza PC

ADDITIONAL DATA**LumiSizer** (40°C - 3 months - 1000 g) : ---**Challenge test** (ISO 11930) : ---**Natural Origin %** (ISO 16128) : ---

February 2021