

WATERPROOF LIGHT SUN CREAM expected SPF 50

Ref. E-11/W-0204/12

TRADE NAME (INCI)	FUNCTION	SUPPLIER	% w/w
A			
Massocare CPH-K MB (Potassium Cetyl Phosphate)	<i>anionic o/w emulsifier</i>	(1)	3.00
Massocare PEG30 PHS (PEG-30 Dipolyhydroxystearate)	<i>polymeric o/w co-emulsifier</i>	(1)	0.25
Massocare TH MB (Triethylhexanoin)	<i>emollient</i>	(1)	8.00
Finsolv TN (C12-C15 Alkyl Benzoate)	<i>emollient</i>	(2)	6.00
Massocare CI (Cetearyl Isononanoate)	<i>emollient</i>	(1)	2.00
Massocare IPP MB (Isopropyl Palmitate)	<i>emollient</i>	(1)	1.50
Massocare HPI (Hydrogenated Polyisobutene)	<i>emollient</i>	(1)	1.00
NaturaSoft Shea W- Refined (Butyrospermum Parkii (Shea Butter))	<i>emollient, nourishing</i>	(3)	1.00
Cosmosurf DDG-28 (Bis-Dodecylhexyldecyl Dimer Dilinoleate/Propanediol Copolymer)	<i>film-forming, water-proof</i>	(4)	3.00
Diethylamino Hydroxybenzoyl Hexyl Benzoate	<i>chemical sunscreen (UVA)</i>		10.00
Ethylhexyl Triazone	<i>chemical sunscreen (UVB)</i>		3.00
Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	<i>chemical sunscreen (UVB & UVA)</i>		2.00
B			
Water (Aqua)	<i>solvent</i>		51.65
Palmera G995E MB (Glycerin)	<i>humectant</i>	(5)	5.00
EDTA Na ₂ (Disodium EDTA)	<i>chelating agent</i>		0.10
Sharomix EG-14 (Phenoxyethanol, Ethylhexylglycerin)	<i>preservative</i>	(6)	1.00
C			
Massocare TCK A5 (Sodium Polyacrylate, Hydrogenated Polydecene, Trideceth-6)	<i>rheology modifier</i>	(1)	0.80
D			
Natura-Tec Rice Starch (Oryza Sativa Starch)	<i>aesthetic modifier</i>	(3)	0.50
E			
AR762712 - Summer Dream Ecoboost (Parfum)	<i>perfume</i>	(7)	0.20

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APPEARANCE

yellowish lotion

SPECIFICATIONS**Viscosity:** 10.580 mPa·s (Brookfield LVT, Spindle B, 12 rpm) 19°C**pH:** 6.49 (NaOH 30% aq. sol.)**PROCEDURE (hot process)**

1. Heat the emollients of phase A to 80-85°C and disperse Massocare CPH-K MB whilst stirring slowly
2. Add the rest of phase A to the previous mixture keeping hot conditions
3. Heat phase B to 80°C
4. Add phase A to phase B whilst stirring slowly (300 rpm)
5. Homogenise AB for 1½ minutes (Silverson: 3.000 rpm)
6. Add phase C and homogenise for 1½ minute more (Silverson: 3.000 rpm)
7. Allow to cool down to 40°C whilst stirring slowly (200 rpm)
8. Add phase E and F keeping slowly stirring (200 rpm)
9. Adjust final pH to 6.50, if necessary

KEY INGREDIENTS**Massocare CPH-K MB** - anionic o/w emulsifier or co-emulsifier for light and soft textures**Massocare PEG30 PHS** - polymeric w/o emulsifier for milks and creams, light textures**Massocare TH MB** - dry emollient, solvent for chemical sunscreens**Finsolv TN** - a dry and good spreadability emollient, chemical sunscreens solubiliser**Cosmosurf DDG-28** - naturally derived, biodegradable dispersant, SPF booster and film former**Massocare TCK A5** - ready-to-use thickener and stabiliser**Natura-Tec Rice Starch** - ecocert-compliant rice starch for a long lasting matte appearance**SUPPLIERS**

(1) Cial. Química Massó - (2) Innospec - (3) Natura-Tec - (4) Surfatech - (5) KLK Oleo - (6) Sharon Laboratories - (7) CPL Aromas

ADDITIONAL DATA**LumiSizer** (50°C - 1 month - 500 g) : conforms**Challenge test** (ISO 11930) : ---**Natural Origin %** (ISO 16128) : ---

March 2024