

PROTECTIVE SUN O/W CREAM - SPF 20

Ref. F-11/W-0143/03



| TRADE NAME (INCI) | FUNCTION | SUPPLIERS | % w/w |
|--|---------------------------|-----------|--------|
| A | | | |
| Massocare MILK3 (Caprylic/capric Triglyceride, Triethylhexanoin, Glycerin, Polyperfluoroethoxymethoxy Difluoroethyl PEG Phosphate) | concentrated o/w emulsion | (1) | 33.50 |
| B | | | |
| Avis (Butyl Methoxydibenzoylmethane) | chemical sunscreen (UVA) | (2) | 3.00 |
| Cinnamon (Ethylhexyl Methoxycinnamate) | chemical sunscreen (UVB) | (2) | 3.00 |
| Etone (Ethylhexyl Triazone) | chemical sunscreen (UVB) | (2) | 3.00 |
| Octyne-B (Octocrylene) | chemical sunscreen (UVB) | (2) | 3.00 |
| C | | | |
| Water up to (Aqua) | solvent | | 100.00 |
| Betafin BP20 (Betaine) | moisturising | (3) | 3.00 |
| D | | | |
| Massocare TCK A1 (Sodium Polyacrylate, Paraffinum Liquidum, Trideceth-6) | rheology modifier | (1) | 1.50 |

PROTECTIVE SUN O/W CREAM - SPF 20

Ref. F-11/W-0143/03



APPEARANCE : white shiny cream

SPECIFICATIONS :

Viscosity : 43.300 mPa·s (Brookfield LVT, Spindle D, 12 rpm) 20°C

pH : 6.02 (NaOH 30% aq.sol.)

PROCEDURE (semi-cold process) :

1. Heat phase B to 55-60°C and mix well till obtaining an homogeneous phase
2. Mix phase A and phase B whilst stirring moderately (400 rpm)
3. Add phase C to AB keepig moderate stirring (400 rpm)
4. Homogenise phase ABC for 1½ minutes (Silverson: 3.000 rpm)
5. Add phase D to ABC and homogenise for 1½ minutes more (Silverson: 3.000 rpm)
6. Stir for 15 minutes more whilst stirrng slowly (200- 250 rpm)
7. Adjust final pH to 6.00- 6.50, if necessary

KEY INGREDIENTS :

Massocare MILK3 - concentrated o/w emulsion for sprayables, milks and creamy-gels

Betafin BP20 - ecocert-compliant moisturiser, organic osmolyte

Massocare TCK A1 - ready-to-use thickener and stabiliser

SUPPLIERS :

(1) Cial. Quimica Massó - (2) Vivimed - (3) Dupont

