



## WATERPROOF PROTECTIVE SUNCARE VIVO SPF 20 – DELICATE SKIN 6904

### Formula

|          |   |          |
|----------|---|----------|
| <b>A</b> | • <b>SIMULSOL 165</b> ( <i>Glyceryl stearate and PEG-100 stearate - SEPPIC</i> )  | 3.20 %   |
|          | • <b>MONTANOV S</b> ( <i>Coco-glucoside and Coconut alcohol - SEPPIC</i> )  | 1.30 %   |
|          | • Isodecyl neopentanoate  | 10.00 %  |
|          | • PVP Hexadecene copolymer  | 5.00 %   |
|          | • Glycerin  | 5.00 %   |
|          | • Ethyl hexyl methoxycinnamate  | 7.50 %   |
|          | • Benzophenone -3   | 2.50 %   |
|          | • Ethyl hexyl salicylate  | 5.00 %   |
|          | • Zinc oxyde  | 7.10 %   |
| <b>B</b> | • <b>SEPICALM VG</b> ( <i>Sodium palmitoyl proline and Nymphaea alba flower extract - SEPPIC</i> )                              | 3.00 %   |
|          | • Cyclomethicone  | 5.00 %   |
| <b>C</b> | • <b>SIMULGEL EG</b> ( <i>Sodium acrylate/acryloyldimethyltaurate copolymer and isohexadecane and polysorbate 80 - SEPPIC</i> ) | 1.00 %   |
| <b>D</b> | • Tromethamine  | QS PH    |
|          | • Tetrasodium EDTA  | 0.20 %   |
|          | • Xanthan gum   | 0.15 %   |
|          | • Magnesium aluminium silicate  | 1.00 %   |
|          | • Water   | QSP 100% |
| <b>E</b> | • <b>SEPICIDE HB</b> ( <i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben/ Butylparaben - SEPPIC</i> )                 | 0.30 %   |
|          | • <b>SEPICIDE CI</b> ( <i>Imidazolidinyl urea - SEPPIC</i> )  | 0.20 %   |
|          | • DL alpha tocopherol   | 0.05 %   |
|          | • Fragrance   | 0.30 %   |

### Procedure

Melt ingredients in A at 75-80°C and disperse zinc oxide in the warm fatty phase. Disperse the silcate and the xanthan gum in water untill homogeneous then introduce EDTA and tromethamine. Add SIMULGEL EG in this blend with vigorous stir in order to obtain swelling of the polymer, then heat to 80°C. Add fatty phase A in the water phase and start homogenizing for 5'. Start cooling while continuously homogenizing. Introduce SEPICALM VG and cyclomethicone at 60°C and homogenize for 5' more. Then cool with moderate stir and add ingredients in E at 30°C.

### Comments

**SIMULSOL 165**                      *Self emulsifying base.*



|                    |   |
|--------------------|---|
| <b>MONTANOV S</b>  | <i>Glucolipid emulsifier in harmony with nature. The combination of SIMULSOL 165 / MONTANOV S makes it possible to guarantee the preservation of a smooth texture over time. This combination facilitates the formulation of sun-care products that are stable in terms of texture, dispersion of sunscreens, protection factor, etc.</i> |
| <b>SIMULGEL EG</b> | <i>Thickening and emulsifying agent in liquid form. Very easy to use (no predispersion or neutralization). Provides a soft, non-sticky feel.</i>  |
| <b>SEPICALM VG</b> | <i>Lipo-amino soothing agent enriched with water lily blossom extract. Specially adapted to the needs of sensitive skin and sun-damaged skin.</i>   |
| <b>SEPICIDE HB</b> | <i>Preservatives.</i>   |
| <b>SEPICIDE CI</b> | <i>Preservatives</i>  |

## Characteristics

|                   |  |
|-------------------|--|
| <i>Appearance</i> | <i>white fluid emulsion.</i>   |
| <i>pH</i>         | <i>approx 7</i>  |
| <i>Viscosity</i>  | <i>approx 90.000 mPa.s BROOKFIELD LV4 6rpm</i>   |
| <i>Stability</i>  | <i>Stable at RT/40°C/ 50°C and after freeze-thaw cycles -5 / +40°C (M1)<br/>Stable when centrifuged 3000rpm 20' 50°C</i> |

## Assessment

SPF - in vitro (measured after 1 month) :  $25 \pm 2$   
(protocol SEPPIC 57CO033, vitro skin®, spectrophotometer LABSPHERE®)

SPF - in vivo (measured after 1 month) :  $19 \pm 4$  (5 volunteers - DERMSCAN 1020102)

Water resistance in vitro : 58% water resistance  
(protocol SEPPIC 57CO048 soon available)

Water resistance in vivo: pending

## Notes

Isodecyl neopentanoate (Supplied by SEPPIC in some countries - please ask us))  
Cyclomethicone: DC345 (DOW CORNING)  
Fragrance : APHRODIS X01.029 (QUEST)  
Ethyl hexyl methoxycinnamate = octinoxate: UVINUL MC80 (BASF)  
Benzophenone -3 : UVINUL M40 (BASF)  
Ethyl hexyl salicylate = octisalate : ESCALOL 587 (ISP)  
Zinc oxyde : INH73MZ (KOBO) 70%ES

## 6904 – SEPPIC – A0211

*Since this formula has not been the object of a toxicological study, the use and handling of the products proposed is purely indicative and SEPPIC accepts no responsibility for their use by another party.*