



## WATERPROOF SUNCARE SPF 30 – WR 78% 6981A

### Formula

<b>A</b>	<ul style="list-style-type: none"><li>• <b>MONTANOV™ 82</b> (Cetearyl alcohol/coco-glucoside - SEPPIC)</li><li>• <b>SENSANOV™ WR</b> (C20-22 Alkyl phosphate and C20-C22 alcohols - SEPPIC)</li><li>• <b>LANOL 99</b> (Isononyl Isononanoate - SEPPIC)</li><li>• Diisopropyl Adipate</li><li>• Diisopropyl Sebacate and Isodecyl Neopentanoate and lauryl Lactate</li><li>• Octocrylene</li><li>• Oxybenzone</li><li>• Ethyl hexyl methoxycinnamate -<i>octinoxate</i></li><li>• Zinc oxide and Cyclopentasiloxane and PEG-10 Dimethicone and Dimethicone</li><li>• Ethylhexyl palmitate and Titanium dioxide and Alumina and Polyhydroxystearic Acid and Silica</li></ul>	2.00% 1.00% 1.00% 1.00% 2.00% 7.00% 5.00% 7.50% 6.00% 4.00%
<b>B</b>	<ul style="list-style-type: none"><li>• Water/Aqua</li><li>• Microcrystalline cellulose and cellulose gum</li><li>• Methylpropanediol</li><li>• Tetrasodium EDTA</li></ul>	Qsp100% 1.00% 2.00% 0.10%
<b>C</b>	<ul style="list-style-type: none"><li>• <b>SIMULGEL™ NS</b> (Hydroxyethylacrylate/sodium acryloyldimethyl taurate copolymer &amp; squalane &amp; polysorbate 60 - SEPPIC)</li></ul>	1.60%
<b>D</b>	<ul style="list-style-type: none"><li>• <b>SEPICIDE™ HB</b> (Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butylparaben - SEPPIC)</li><li>• Fragrance</li></ul>	1.00% 0.10%

### Procedure

Disperse the cellulose in water then heat phase B at 75°C. Heat phase A at 75°C then introduce A into B in one step and homogenize between 5 to 10 minutes ( rotor/stator turbine is recommended).

Add phase C at the beginning of the homogenisation step.

Cool the emulsion under moderate stirring and add phase D at around 40°C.

### Comments

#### MONTANOV 82

Glucolipid emulsifier in harmony with nature. It facilitates the formulation of suncare products that are stable in terms of texture, dispersion of sunscreens, protection factor, etc. 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. In combination with the other grades of the MONTANOV range, it can be used to modulate the texture and flexibility of the emulsions as desired. Montanov 82 used at low level

SEPPIC SA  
33(0) 1 40 62 55 55

Givaudan Lavitrotte SA  
33(0) 4 78 61 55 00

SEPPIC Inc  
1 973 882 5597

SEPPIC China  
86(21) 64 66 01 49

SEPPIC UK Ltd  
44 208 577 8800

SEPPIC GmbH  
49(0) 220 3890 3100

SEPPIC Italia Srl  
39 02 38009110

SEPPIC Belgium NV  
32 3 250 3911



allows to emulsify high level of waxes into cream gel texture. Montanov 82 is useful to obtain thick lotions with rich and smooth texture.

#### **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 *in vivo* by a waterresistant effect for the development of sun care formulations.

#### **SIMULGEL NS**

Thickening and emulsifying agent in very easy to use liquid form (no pre-dispersion or neutralization). Provides a sensation of freshness followed by a melting effect on contact with the skin. It leaves a feeling of velvety softness. SIMULGEL NS perfectly stabilizes emulsions against high temperatures. SIMULGEL NS easily stabilizes mineral additives. The appearance of the emulsion remains smooth and homogeneous over time.

#### **SEPICIDE™ HB**

Preservative

### **Characteristics**

Aspect	Fluid emulsion
pH	7.5
Viscosity	Around 30,000 mPa.s (Brookfield LV4 V6)
Stability	Stable at RT, 40°, 50°C Stable after 1 month freeze-thaw cycles -5/+40°C

### **Notes**

Ethylhexyl palmitate and Titanium dioxide and Alumina and Polyhydroxystearic Acid and Silica : TIOVEIL OP (UNIQEMA )

Zinc oxide and Cyclopentasiloxane and PEG-10 Dimethicone and Dimethicone : CM3K40HP1 (KOBO)

Methylpropanediol : MP DIOL (LYONDELL)

Cellulose microcristalline and cellulose gum : AVICEL PC611

Diisopropyl Sebacate and Isodecyl Neopentanoate and lauryl Lactate (distribué par SEPPIC dans certains pays)

Diisopropyl Adipate (distribué par SEPPIC dans certains pays)

Isononyl Isononanoate (distribué par SEPPIC dans certains pays)

### **Assessment**

In vitro SPF:  $32 \pm 1$  (UVA/UVB ratio=0.5)

(SEPPIC'S method 57CO033, vitro skin®, spectrophotometer: LABSPHERE®)

In vitro Water-resistance: 78%

(SEPPIC'S method (57CO048))

### **6981A – SEPPIC – 0502**

***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.***

**SEPPIC SA**  
33(0) 1 40 62 55 55

**Givaudan Lavitrotte SA**  
33(0) 4 78 61 55 00

**SEPPIC Inc**  
1 973 882 5597

**SEPPIC China**  
86(21) 64 66 01 49

**SEPPIC UK Ltd**  
44 208 577 8800

**SEPPIC GmbH**  
49(0) 220 3890 3100

**SEPPIC Italia Srl**  
39 02 38009110

**SEPPIC Belgium NV**  
32 3 250 3911