



SUN LOTION SPF 10 BROAD SPECTRUM 6773B

Formula

A	<ul style="list-style-type: none">• Caprylic / Capric triglyceride• Ethyl hexyl methoxycinnamate• Butyl methoxy dibenzoylmethane	7.00 % 8.50 % 1.50 %
B	<ul style="list-style-type: none">• SIMULGEL EG (<i>Sodium acrylate/acryloyldimethyltaurate copolymer and Isohexadecane and Polysorbate 80 - SEPPIC</i>)	0.70 %
C	<ul style="list-style-type: none">• MONTANOV L (<i>C14-22 alcohol and C12-20 alkylglucoside - SEPPIC</i>)• Tetrasodium EDTA• Water	2.50 % 0.05 % QS 100 %
D	<ul style="list-style-type: none">• SEPICIDE HB (<i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butyl paraben - SEPPIC</i>)• DL alpha tocopherol• Fragrance	1.00 % 0.05 % 0.10 %

Procedure

Heat A to 75°C then add B. Introduce MONTANOV L in hot water (75°C : Phase C) and continue heating until the emulsifying agent is completely dissolved.

Add A + B in C, start emulsifying for a few minutes with a rotor/stator turbine when all the phases are incorporated. Slowly continues mixing and cooling down. At 40°C, add the components of phase D.

Comments

MONTANOV L An eco-emulsifying agent which is ideal for generating formulations which are relatively to very fluid. Efficient stabilization even at very low viscosity. MONTANOV L may generate liquid crystals in certain emulsification processes and in certain kinds of emulsion, as is the case for formula 6773.

SIMULGEL EG A thickening and emulsifying agent, easy to use and ideal for fluid emulsions.

SEPICIDE HB Preservative

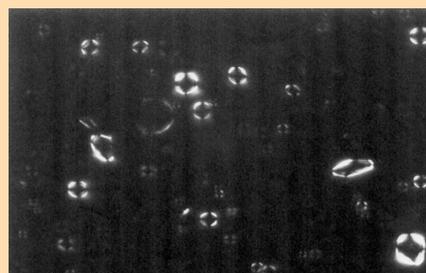


Characteristics

Appearance	white fluid emulsion
pH	about 7
Viscosity	about 2,500 mPa.s BROOKFIELD LVT S ₂ S ₆
Stability	Stable at RT/40°C/ 50°C and after freeze-thaw cycles -5 / +40

Evaluation

The microscopically observation with polarized light shows off liquid crystals.



SPF	SPF in vitro (measured at month 1) : 10 ± 1 Star category ☆☆☆ (57CO033 method, vitro skin [®] , spectrophotometer LABSPHERE [®]) SPF in vivo (measured at month 1): 9 ± 1 (5 volunteers – report DERMSCAN 100 691)
Rheological study : Estimated viscosity under high shear rate (around 2000 to 5000s ⁻¹)	15 à 20 mPa.s (flow curve – cone 4cm 2°- 25°C) Thanks to that very low viscosity under high shear (according to the shear rate applied by the spray nozzle), sprayability of that formula is excellent.
Sprayability (57CO036)	3879 mm ²

Notes

Fragrance : VAHINE X010.030 (QUEST)
Ethyl hexyl methoxycinnamate: UVINUL MC80 (BASF)
Butyl methoxy dibenzoylmethane : PARSOL 1789 (GIVAUDAN ROURE)

6773B – SEPPIC –A0207

Since this formula has not undergone toxicological analysis, the proposed use and handling of the products is for reference purposes only and SEPPIC accepts no liability for their use by any party.