



O/W
Emulsion



Labosphere
development

- Aspect: Light yellow fluid cream
- Packaging: spray
- Sunbathing & protecting from skin ageing is possible!
- ANTILEUKINE 6™ is an ally against skin ageing: it protects DNA after sun exposure and soothes skin.
- EMOSMART™ L15 & EMOSMART™ L19 bring a light and powdery after feel.
- SENSANOV™ WR shows a very good compatibility with all kind of sun filters and oils, that is why it is the perfect emulsifier for this formula.
- SEPIMAX ZEN™ thickens the formula and allows sun filter suspension.
- Do not hide from sun anymore, enjoy it!



EU07438-1701

Formula

A	EMOSMART™ L15 EMOSMART™ L19 C12-15 Alkyl Benzoate Pentylene Glycol Bis-ethylhexyloxyphenol Methoxyphenyl Triazine Ethylhexyl Salicylate Ethylhexyl Methoxycinnamate BHT Ethylhexyl Triazone SENSANOV™ WR ANTILEUKINE 6™	4.00% 2.00% 4.00% 2.00% 2.70% 3.00% 4.50% 1.00% 2.50% 2.00%
B	Aqua/Water EDTA Glycerin Chlorphenesin Sodium Hydroxide (10%)	58.24% 0.10% 2.00% 0.25% 1.16%
C	SEPIMAX ZEN™	0.40%
D	Methylene Bis-benzotriazolyl Tetramethylbutylphenol Nano Aqua/Water	6.00% 3.00%
E	SEPICIDE™ LD	0.80%
F	Fragrance	0.35%

Procedure

Lab scale

Weight ingredients of phase A except ANTILEUKINE 6, heat to 80° C under agitation, then add ANTILEUKINE 6. Phase B: Weight water, glycerin and EDTA, heat under agitation to 80° C, add CHLORPHENESIN, then NAOH solution. Under high agitation emulsify adding slowly phase A into a phase B. Sprinkle in fine rain SEPIMAX ZEN(phase C). Cool down to 75° C and homogenize with turrax at 9500RPM during 30 sec. Keep cooling under moderate agitation. Mix all ingredients of phase D in a separated beaker. Add phase D into the phase (A+B+C) when the emulsion reaches 60° C. At 50° C add phase D. Finally, add phases E & F when the emulsion is at RT.

Characteristics

Appearance	Light yellow fluid cream
pH	7.12
Viscosity 1M at RT	3290 mPa S4S20
Stability*	Stable after 1M at RT & 40° C

Raw materials from SEPPIC

EMOSMART™ L15

C15-19 Alkane

EMOSMART™ L15 is a high-purity, non polar, and biodegradable emollient. This high purity alkane shows an excellent compatibility with all types of oils, especially with silicone oils. It gives a fresh and vanishing texture with a dry and matt afterfeel. Inert and stable, it can be used in all types of applications, even in extreme conditions (pH, oxidizing/reducing media...).

EMOSMART™ L19

C15-19 Alkane

EMOSMART™ L19 is a high-purity, non polar and biodegradable emollient. It shows an excellent compatibility with all types of oils. It gives a fresh and vanishing texture with a matt afterfeel. Inert and stable, it can be used in all types of applications, even in extreme conditions (pH, oxidizing/reducing media...).

SENSANOV™ WR

C20-22 Alkyl Phosphate and C20-22 Alcohols

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™ WR emulsions leaves the skin supple with a long lasting sensation of comfort. This protective film sensation is reflected in vivo by a water-resistant effect for the development of sun care formulations. SENSANOV™ WR reduces oiliness of extra rich emulsion. Ideal for makeup products, SENSANOV™ WR is able to emulsify a high percentage of fillers keeping a perfectly smooth texture.

ANTILEUKINE 6™

Caprylic/Capric Triglyceride/Laminaria Ochroleuca Extract

Oily protector & repairing active to fight against inflammation mediators of the skin (in vitro & in vivo studies)

SEPIMAX ZEN™

Polyacrylate Crosspolymer-6

Powder polymer with a MAXIMUM resistance to electrolytes thanks to its high associative behavior. Stable from pH 2 to 8, it enables the creation of formulas with a specific skin feeling, included foaming formulas: rich, velvety and elegant. It is now possible to formulate transparent aqueous gels, cream-gels and emulsions with any kind of active ingredients and to achieve ZEN.

SEPICIDE™ LD

Phenoxyethanol

Preservative agent with a good activity against gram-negative micro-organisms, particularly *Pseudomonas Aeruginosa*

Other raw materials...

- C12-15 Alkyl Benzoate: CRODAMOL AB-LQ-(RB) (CRODA)
- Pentylene Glycol: HYDROLITE-5 (SYMRISE)
- Bis-ethylhexyloxyphenol Methoxyphenyl Triazine: TINISORB S (BASF)
- Ethylhexyl Salicylate: EUSOLEX OS (MERCK)
- Ethylhexyl Methoxycinnamate BHT: PARSOL MCX (DSM)
- Ethylhexyl Triazone: UVINUL T150 (BASF)
- CHLORPHENESIN: CHLORPHENESIN BP 73
- Methylene Bis-benzotriazolyl Tetramethylbutylphenol Nano: TINISORB M (BASF)