


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