

# EU07207A

# ILLUSTRATIVE FORMULA: NO SOAPING EFFECT IN A 100% NATURAL EMULSION





O/W Emulsion

- Slightly yellow cream
- Packaging: tube
- Formula rich in oils from vegetable origin associated with natural gum (combination wellknown to generate a soaping effect)
- High % of emulsifier selected to create an unfavourable condition in order to maximize the soaping effect and demonstrate that SIMULGREEN™ 18-2 is able to prevent "whitening" effect during application. No soaping effect (sensorial analysis: method 57CO082)
- To conclude: if you incur a soaping effect problem in a green O/W emulsion, replace your usual emulsifier + fatty alcohols with SIMULGREEN™ 18-2.
- Good preservation with 1.25% Aminat CB: criteria A obtained by challenge test (European Pharmacopea)



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Formula		
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A	LANOL™ 2681	10.00%
	Prunus Amygdalus Dulcis (Sweet	10.00%
	Almond) Oil	
	Tocopherol	0.05%
В	Aqua/Water	Up to 100%
	SIMULGREEN™ 18-2	4.00%
	Benzyl alcohol & Glycerin & Ethyl	1.25%
	Lauroyl Arginate HCl & cinnamic acid	
С	Xanthan Gum	0.50%
D	NaOH 6%	Qs pH = 5-5.5

## **Procedure**

Heat A and B at 75° C. Add xanthan gum into oil phase at 75° C. Emulsify with silverson at 4000 rpm during 4 min. cool down with anchor during 20 min. Adjust to pH 5-5.5

## **Characteristics**

Appearance
pH
Viscosity 1M at RT
Viscosity 1M at 45° C
Viscosity recovery at RT
(after 1M at 45° C)
Stability

Slightly yellow cream

21000 mPa.s Brookfiels S4 sp.6 21500 mPa.s Brookfield S4 sp.6 31 000 mPa.s Brookfield S4 sp.6

1M at RT, 45° C

# Raw materials from SEPPIC

#### SIMULGREEN™ 18-2

#### Hydroxystearyl Alcohol & Hydroxystearyl Glucoside

Emulsifier from vegetable origin with a structure designed to respect the environment and provide versatile emulsifying properties: stabilizes all nature of oils (performs at just 1% with vegetable oils) over a broad pH range (3-10).

Its sensory profile is exceptional: no soaping effect regardless of the oily phase and an « invisible » presence with a nude skin sensation during application and a lasting softness.

#### LANOL™ 2681

#### Coco-Caprylate Caprate

Emollient texturizing agent with light and soft texture.

#### AMINAT™ CB

Benzyl alcohol & Glycerin & Ethyl Lauroyl Arginate HCl & cinnamic acid

An ECOCERT®, broad spectrum preservative very easy to use from natural origin.

## Other raw materials...

- Prunus Amygdalus Dulcis (Sweel Almond) Oil : Huile d'amande douce (BERTIN)
- Tocopherol : DL alpha Tocophérol (BASF)
- Xanthan Gum: Keltrol CG-T (KELCO)
- Benzyl alcohol & Glycerin & Ethyl Lauroyl Arginate HCl & cinnamic acid: Aminat CB (Vedesque)

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