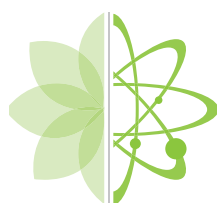


# PHYTOCARE-OL

From the precious olive oil  
a unique "green" emulsifier  
for your natural cosmetics



**naturalis**<sup>®</sup>  
LIFE TECHNOLOGIES



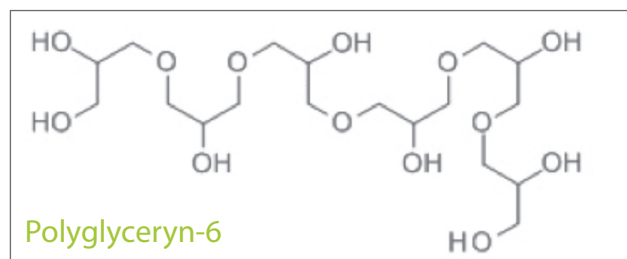


Olive oil is beneficial for dry skin because of its fatty acid content, some of which comes from the emollient squalene. Olive oil contains essential fatty acids dry skin needs, including oleic, palmitic, and linoleic acids. It also contains phenolic compounds that provide antioxidant benefit.

#### *Fatty acid composition of Olive oil*

Fatty acid	Percentage
Oleic acid	55 to 83%
Linoleic acid	3.5 to 21%
Palmitic acid	7.5 to 20%
Stearic acid	0.5 to 5%
$\alpha$ -Linolenic acid	0 to 1.5%

**PHYTOCARE-OL** is a new vegetable derived O/W emulsifier combining the unique beneficial properties of the fatty acids in olive oil with the moisturizing and protective properties Polyglycerin



**PHYTOCARE-OL** is a natural emulsifier free from ethylene oxide and nitrosamines. Thanks to their innocuous nature for their exceptional toxicological profile (do not cause any denaturing of the skin's proteins) and biodegradability, formulators can get emulsions that have the maximum skin compatibility and safe for the environment.

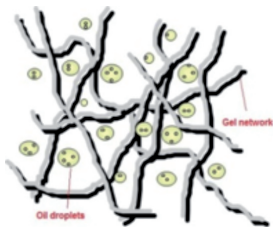
**PHYTOCARE-OL** belongs to the new generation of vegetal O/ PEG-free emulsifiers developed by Naturalis to meet the requirements of modern cosmetic formulation, such as:

- PEG-free
- Can be used cold
- Non-nitrosamine forming
- Excellent biodegradability
- Toxicologically safe
- Based on native raw materials



**PHYTOCARE-OL** is a special emulsifier forming "gel network structures" in the formulation. The gel network structure strengthens the barrier function of the skin protecting epidermis from water loss because it is similar to the multi-lamellar hydro-lipid structure of the stratum corneum.

Gel network structure formed by PHYTOCARE OL provides many other interesting cosmetic properties as:



- high stability for long period of storage in wide range of temperature.
- Short and long lasting moisturizing effects
- Water resistance.
- It enable to reduce preservatives.
- Enhances the absorption of active ingredients through the skin
- Improves protection from UV rays thanks to a better dispersion of the physical and chemical sunscreens

**PHYTOCARE-OL** is a versatile and high performance emulsifier for all types of applications. It gives excellent results with any type of dispersed phase.

**PHYTOCARE-OL** is useful for all applications types: skin care, sun care, make-up and hair care, giving a complete range of viscosity.

**PHYTOCARE-OL** is suitable for all skin types ,providing a full range of texture

**RECOMMENDED USE LEVEL:**

3-5% (15% of the total lipid phase)

**MAXIMUM DOSAGE:** No known restrictions

**CHARACTERISTICS:**

Aspect:	<i>Liquid</i>
Color	<i>Amber</i>
Odor	<i>Characteristic</i>
Acid value	<i>15 max</i>
Iodine value	<i>35-40</i>
Saponification Value	<i>70-80</i>
pH ( sol. 5%)	<i>6-7</i>
HLB	<i>12</i>

**PRESERVATIVE:** No preservative are added

**SHELF LIFE:** 2 Years

**SOLUBILITY:** dispersible in water phase

**CERTIFICATION STATUS:**

Product free from Genetically Modified Organisms  
Allergen free  
Not tested on animals

**PACK SIZE AVAILABLE:** 20 and 100 kg pails

**HANDLING PROCEDURES:** Store in a cool and dry place, avoid light and heat. Keep containers closed when not in use.

**SHELF LIFE:** Stored in unopened containers for 2 year

**SAFETY & TOXICITY:** Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

- non-irritating
- non-toxic

**INCI NAME:** Olive oil polyglyceryl-6 esters

**MANUFACTURER:**

Naturalis Srl – Italy Product N° PH-1403

## FORMULATION GUIDE

<b>Moisturizing Cream</b>		<b>Nourishing Cream</b>		<b>Hands Cream</b>	
<b>Phytocare-OL</b>	<b>3,0%</b>	<b>Phytocare-OL</b>	<b>3,0%</b>	<b>Phytocare-OL</b>	<b>3,0%</b>
Cetearyl alcohol	6,0%	Cetyl alcohol	5,0%	Behenyl alcohol	3,0%
Glyceryl monostearate	2,0%	Glyceryl monostearate	2,5%	Beeswax	3,0%
Almond oil	15,0%	Argan oil	2,0%	Olive oil	2,0%
Aloe vera gel 1x	3,0%	Isononyl isononanoate	8,0%	Mineral oil	8,0%
Hydroxyethylcellulose	0,4%	Dimethicone	0,5%	Octyldodecanol	5,0%
Vitamin E acetate	0,5%	Aloe vera gel 1x	3,0%	Dimethicone	1,5%
Preservatives	as needed	Hydroxyethylcellulose	0,4%	Aloe vera gel 1x	3,0%
Parfum	as needed	Vitamin E acetate	0,5%	Xanthan gum	0,2%
		Preservatives	as needed	Vitamin E acetate	0,5%
		Parfum	as needed	Preservatives	as needed
				Parfum	as needed
<b>After sun</b>		<b>Anti-age Cream</b>		<b>Cleaning Milk</b>	
<b>Phytocare-OL</b>	<b>3,0%</b>	<b>Phytocare-OL</b>	<b>3,0%</b>	<b>Phytocare-OL</b>	<b>3,0%</b>
Cetearyl alcohol	5,0%	Cetearyl alcohol	6,0%	Cetyl Alcohol	3,0%
Glyceryl monostearate	2,0%	Glyceryl monostearate	2,0%	Almond oil	3,0%
Cetearyl Isononanoat	10,0%	Isopropyl palmitate	5,0%	Ethylhexyl palmitate	5,0%
Jjoba oil	8,0%	Almond oil	4,0%	<b>Nio-Hydran</b>	<b>1,0%</b>
Dimethicone	1,0%	Argan oil	2,0%	Aloe vera gel 10x	3,0%
<b>Nio-Kiol</b>	<b>1,0%</b>	Nio-Age	1,5%	Hydroxyethylcellulose	0,2%
<b>Nio-Hydran</b>	<b>1,0%</b>	Aloe vera gel 1x	3,0%	Xanthan Gum	0,1%
Aloe vera gel 10x	2,0%	Carbomer	0,2%	Vitamin E acetate	0,5%
Xanthan gum	0,2%	Xanthan gum	0,1%	Preservatives	as needed
Vitamin E acetate	0,5%	Vitamin E acetate	0,5%	Parfum	as needed
Carbomer	0,1%	Preservatives	as needed		
Preservatives	as needed	Parfum	as needed		
Parfum	as needed				

