

Phyto Ceramidyl - Omega

INCI name

Plukenetia Volubilis Seed Oil, Olive Glycerides, Glycerin, Aqua, Polyglyceryl-5 Oleate, Ceramide 3, Tocopherol

Description

PHYTO CERAMIDYL-OMEGA is a complete active ingredient for the treatment of dry and sensitive skins. It is an original combination of two elements with vital function at the preservation of the skin's barrier function: a high combination of Poly Unsaturated Fatty Acids obtained from botanical source and CERAMIDE 3 in an olive oil-based carrier. This is a unique system of tri & di-glycerides obtained from a strictly controlled esterification process of glycerin and fatty acids from olive oil.

It contains an extraordinary high concentration of Omega 3 (around 31%), Omega 6 (around 20%) and Omega 9 (around 6%). These essential fatty-acids cannot be produced by our body and are only obtained from food ingestion. The Ceramides (5%) are of high purity and are precursors of the ceramides found at the stratum corneum.

Dry skin is a common problem nowadays. It is suffered by an increased part of the population (between 15 and 20%). It is normally characterized by a lack of cohesion of the corneocytes, so there is an excessive Trans-Epidermal Water Loss (TEWL) and a reduced capacity to hold water. The main reasons for this increasing problem are facts like climate changes, use of aggressive soaps and detergents, changes in diet or the effects of a reduced ozone layer.

Sensitive skin is characterized by excessive reaction to external and internal aggressions. It is a thin or a fine-textured skin. Sebaceous secretion is decreased so the skin protection is not adequate and neither is the elasticity. It reacts quickly to both heat and cold; therefore, it sunburns and windburns easily. It is commonly dry, delicate and prone to allergic reactions. Temperature changes, some detergents, cosmetics and alcohol (used on the skin) can all cause irritation, leaving the skin red and blotchy, with visible surface veins.

The main reasons for this increasing problem are quite analogous to those of dry skin: climate and environmental changes, contact with chemical substances, UV exposition, diet and endogenous aggressions: emotions, stress, or tiredness.

Dry and sensitive skins usually have in common a weak barrier function which leads to high TEWL and easy penetration of alien substances. Most of the times, this is due to a deficiency in skin lipids (ceramides and free fatty acids). Defective skin barrier results in increase water loss and enhanced sensitivity to environment. These leads to:

- Loss of transparency, brightness, velvetiness and reflectance
- Excessive desquamation of superficial horny layer
- Destruction of cohesion and destruction of the regularity of horny layers
- Easy penetration of external agents
- Inflammation
- Loss of cutaneous comfort, itchy skin and tightness sensation
- Reduced capacity to hold water
- Rough and wrinkled skin

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PHYTO CERAMIDYL-OMEGA is a concentrated botanical source of poly-unsaturated fatty acids (PUFA) and ceramides without preservatives added.

The use of this active ingredient will help to improve the aspect and sensorial feeling of dry and sensitive skins by:

- Replacement of epidermal lipids, improving the cohesion of horny layers
- Reduction of trans-epidermal water loss
- Improvement of the barrier function, resulting in improved elasticity and skin comfort.
- Less permeability to exogenous elements
- Improvement of transparency and brightness to the skin
- Gives dry and sensitive skin a smoother look, reducing the effect of the wrinkles and the exfoliation characteristic of aged skins.

Effects in Cosmetic Products

PHYTO CERAMIDYL-OMEGA is recommended for cosmetic preparations designed for skin care, products for bath and shower, thanks to its outstanding properties:

- Increase of moisture: Makes the surface of the skin softer and smoother
- Reduction of itchiness
- Increase in elasticity: reduction of tightness sensation
- Better barrier function: skin less reactive as less alien elements are received
- General gain in comfortability of the skin.

It can also be used with excellent benefits for the treatment of dry and damaged hairs. The increasing use of surfactants, aggravate delipidated hairs. The hairs are dry and weaken because it lacks cohesion of the hair cuticles. With the use of PHYTO CERAMIDYL-OMEGA we will insure the consistency of the scalp corneocytes, slowing down dandruff, will relipidate dry hair, improve the sensitive and irritated scalps and participate in a better cohesion of the hair cuticle.

With its specific properties, PHYTO CERAMIDYL-OMEGA can be incorporated according to the requested level of efficacy, in every cosmetic preparation, such as:

- Specific products for dry and sensitive skins
- Preparations for skins lacking elasticity
- Beauty preparations for face and neck like anti-aging, nutritive or moisturization formulations
- Sun care preparations
- After shave products
- Hair products: Shampoos, cream treatments
- Body and bath products

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Dosage – Solubility – Processing

A- DOSAGE:

From 3 to 5 %

B- SOLUBILITY:

PHYTO CERAMIDYL-OMEGA is a ready to use emulsion water-soluble. It is insoluble in oils and fats

C- PROCESSING:

It is compatible with O/W or W/O emulsions and with gels, in a pH range from 4 to 8. Nevertheless, it is the duty of the formulator to make sure of the stability of the formulae with the necessary tests.

It would be preferably incorporated into cosmetic preparations during the finishing process, at the cooling phase at around 40 °C

Analytical Data:

- ASPECT: Opaque paste
- Color: Pale Yellowish
- Peroxide Index (meq/Kg): < 15.00
- Total lipids: 35%

- MICROBIOLOGY: Total Germs: ≤ 200 cfu/g
Patogens: Absence

- TOLERANCE: Good

- STORAGE: At Room temperature (10 °C to 20 °C) in a dry place and away from direct sun light

If original container is opened, to avoid secondary microbiological contamination handle with special care and keep refrigerated.