



Fitoderm™ Olive Squalane

"Nature's Facelift"

Called "Nature's Facelift", this high purity botanical lipid is duplicate in molecular structure and weight to human lipids. Produced from olives, this fine cosmetic raw material is extremely compatible with the skin and is safe for all skin types. Fitoderm™ can be defined as the unsaponifiable portion of Olive Oil, and therefore makes an excellent superfatting agent or emollient for products requiring lipids not subject to hydrolysis, such as shaving creams.

Benefits of Fitoderm™ Olive:

- Boosts Cell Regeneration and Oxygenation.
- Helps prevent formation of "age spots".
- Heals chapped/cracked Skin.
- Antibacterial Properties.
- Permeates at a rate of 2mm per second
- Helps prevent UV damage to skin.
- Helps skin to retain moisture.
- Helps reduce the appearance of wrinkles.
- Imparts relief to dehydrated and ultra-sensitive skin.
- Softens the most rough-textured skin and leaves no oily residue.
- Helpful in counteracting conditions of eczema, psoriasis, and post-operative skin.
- Highly Stable.
- Readily soluble in most cosmetic oils, including cyclomethicone.

Applications

- "Carrier" of other ingredients into the deeper tissues.
- Anti-aging formulas.
- Treatment Oil.
- Universal Emollient.
- Clear/Fragrance Free Formulas.
- Intensive Hair Conditioner.
- Modern Massage Products.

On the personal care market, the trend towards botanically derived products and renewable raw material bases is widely spread. As one of the very traditional renewable raw materials, olive oil has been widely used as a cosmetic ingredient since ancient times. It is an ideal alternative to products of animal origin. Fitoderm is a clear, colorless and odorless oil and has a high stability against oxidation. It is a very suitable emollient for cosmetic formulations, has an excellent compatibility with human skin and imparts an elegant non-greasy skin feel.

Olive oil is the raw material basis for Fitoderm. Fitoderm has the identical chemical structure as squalane sourced from the shark liver with the benefit of being vegetal in origin. It has a defined molecular structure and is an ideal emollient for skin care products, because it is present in nature and in human skin at a level of up to 2.6 per cent.



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Squalene is an unsaturated hydrocarbon (C₃₀H₅₀) which is present in vegetable oils, and especially in fish oil. It was traditionally extracted from shark liver oil which, in dependence of the shark species, contains up to 60 per cent squalene. It is of large interest for cosmetics as it is found in human sebum at a level of 12 per cent. It is even used as a measure of the sebum production rate. Although the exact function of the sebaceous glands is still being discussed, sebum is said to help keep the skin supple and moisturized and to form a protective coat against fungi and bacteria on the skin.

Squalene, however, is not suitable for cosmetic formulations because it is highly unsaturated and therefore oxidizes easily. Therefore, it was converted into squalane by hydrogenation and purification. Squalane (C₃₀H₆₂) is the saturated form of squalene. It does not contain any double bonds in its chemical structure and therefore is very stable against heat and oxidation. Alternatively, squalene may be obtained from olive oil which has a significant squalane amount from 0.1-0.7 per cent.

Fitoderm™ has an excellent compatibility with cosmetic ingredients and is therefore suitable for a wide range of applications. Formulations for massage oils with Fitoderm are in line with the current wellness trend. Fitoderm is easier to emulsify than comparable hydrocarbons such as mineral oil or hydrogenated polyisobutene. This has been demonstrated by formulations incorporating various emulsifiers. Fitoderm had the finest distribution in the emulsion, thus implying a better emulsion stability.

Ingredients
TO DIE FOR

Fitoderm™ Olive is brought to you by...

FitodermTM Technical Data

Labeling information::

INCI name(s): Squalane

Usage Rate: 1-100%

Registrations::

Ingredient CASR-No. EINECS/ELINCS-No. others

111-01-3 2038256

Officially listed in / Quality conforms to

JCIC (vegetal squalane 520 576)

Product properties::

Appearance: Fitoderm is a clear, odourless and colourless oil of very low polarity

Spreading Value: 600 mm² / 10 min

Example of use: Medium spreading emollient with structures similar to structures found in the skin sebum.