THE BEST FROM
DUPCYCLING +Obtained from the
BY - PRODUCT of
the olive oil refinery

SKIN +

Cellular ageless Antioxidant Moisturizing Antiiflammatory



EFFICACY TEST

Anti irritation UV Protection Vaginal revitalizing Emollient



1,0 - 10,0

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Olivan DiuVitae[®]



COSMOS

APPROVED

Olive Squalene 92%

HYDRATION dual system that prevents WATER LOSS and provides the skin with NEW SOURCES of HYDRATION

TRIPLE ANTIOXIDANT ACTIVITY neutralizing free radicals, stimulating production of other antioxidants and protecting cell membranes of oxidative damage.

2 ANTI-INFLAMMATORY PATHWAYS reducing pro inflammatory cytokines and regulating the gene expression

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UNTIL NOW - NON SUSTAINABLE - NON ETHICAL

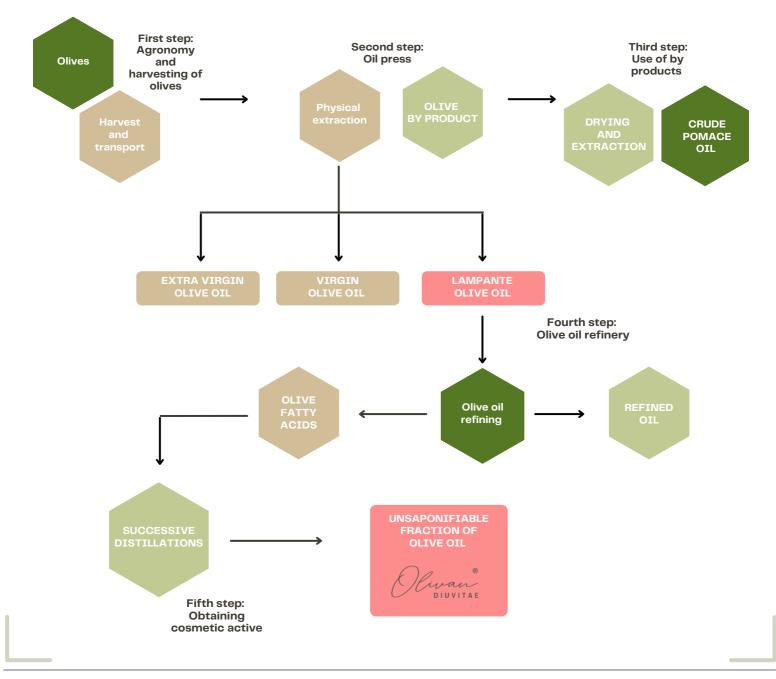
Use of Squalene dates to 1950, but at beginning it was obtained primarily from shark liver. 2,7 millons of sharks annualy to satisfy the needs of the cosmetic market.

Even vegetal originated Squalene exhausts the resources. 2,5 acres of land + people hand work + time consuming for just 50 kg of the vegetal Squalene.

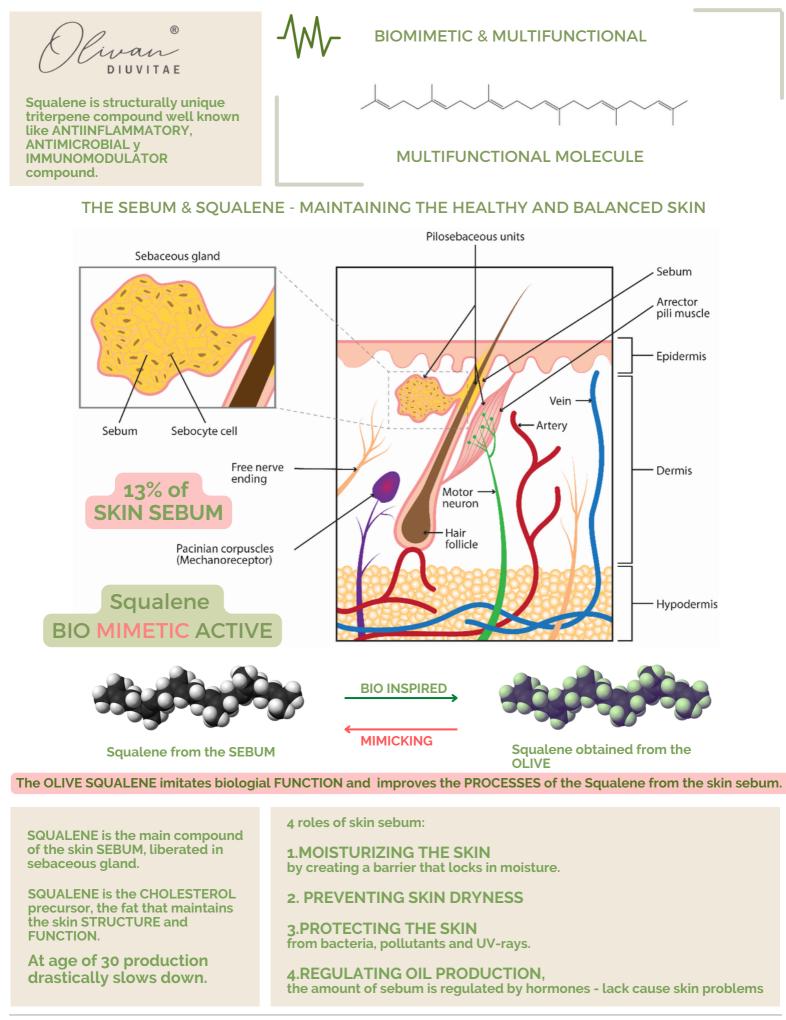
'We make the production of Squalene 100 % SUSTAINABLE'

Muan is the OLIVE SQUALENE obtained from olive oil refining.

From olive oil by-product there is enough supply for the whole cosmetic industry.



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ANTI IRRITATION TEST

SQUALENE decreases erythema by reducing the levels of generated O2 (superoxide anion).

Erythema was induced by the ointment of Lauroylsarcosine 1%. Generation of superoxide anion was a mediator responsible for the skin irritation.

SQUALENE ointment 10% SIGNIFICANTLY REDUCED the superoxide anion.



Figure 1. Photo of erythema

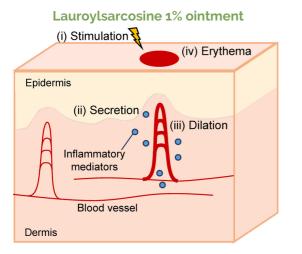
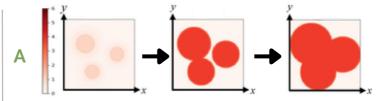
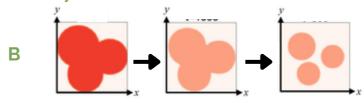


Figure 2. Graphic visualization of the skin reaction when the erythema is induced



A. Erythema increasment induced by 400 mg/ml of Lauroylsarcosine ointment 1%.



B. Erythema decreasment achieved by 100 mg/ ml of Squalene ointment 10%

Akihiro Aioi, Tatsuo Shimizu, Kiyoshi Kuriyama, Effect of squalene on superoxide anion generation induced by a skin irritant, lauroylsarcosine, International Journal of Pharmaceutics, Volume 113, Issue 2,1995,

ANTI INFLAMMATORY ACTIVITY OF SQUALENE

SQUALENE has 2 different pathways of ANTI INFLAMMATORY activity

1st ANTI INFLAMMATORY pathway

SQUALENE acts by reducing the production of PRO-INFLAMMATORY CYTOKINES, the small proteins released by cells that play a key role in the inflammatory response.

2nd ANTI INFLAMMATORY pathway

SQUALENE acts by inhibiting the activation of nuclear factor kappa B (NF-kB), a transcription factor that regulates the expression of genes involved in inflammation.



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SQUALENE has the role of FUNCTIONAL FILTER in the UV PROTECTION.

SQUALENE is peroxided by UV RADIATION. Peroxidation is regulated by pH, temperature and other factors.

Suggested damage of the cutaneous tissue by production of SQUALENE PEROXIDE is NOT OBSERVED.

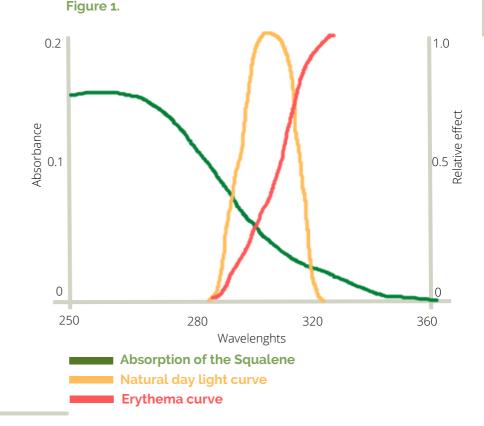
SQUALENE appears in the skin surface like a film with esters, triglycerides and ions Na+, Cl-. It's suspended in water from sweat and epidermal cell in sebum.

UV ENEREGY when arrives to the skin is trapped by SQUALENE as the form of PEROXIDATION.

Figure 1. Coincidence among erythema curve, natural daylight and UVB absorption of Squalene.



UV PROTECTION



Ohsawa K, Watanabe T, Matsukawa R, Yoshimura Y, Imaeda K. The possible role of squalene and its peroxide of the sebum in the occurrence of sunburn and protection from the damage caused by U.V. irradiation. J Toxicol Sci. 1984 May;9(2):151-9. doi: 10.2131/jts.9.151. PMID: 6481825.

EMOLIENT EFFICACY - Squalene's super power

SQUALENE can be used like a material of topically applied vehicles like lipid emulsions.

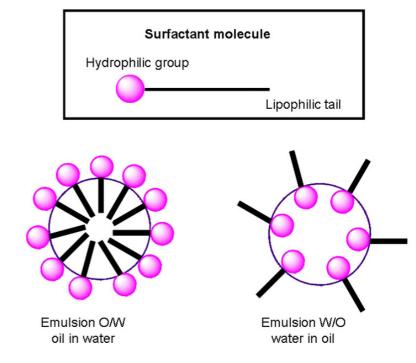
SQUALENE has the ability to incorporate actives with poor solubility within the dispersal phase. See Figure 2.

Double-chain monoglycerides of SQUALENE act as a surfactant in O/W type emulsions.

SQUALENE gives the stability to the O/W emulsions.

Thanks to Squalene's great power of PENETRATION through the skin, it is a great CARRIER for cosmetic active ingredients into the skin.





The Active Ingredients Mixture of Olives Provides Skin Whitening and Age Spot Reduction; Author: Maria Lueder, Qenax AG, Switzerland



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ANTIOXIDANT CAPACITY

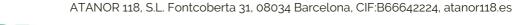
SQUALENE'S ANTIOXIDANT TRIPLE ACTION

Scavenging FREE RADICALS and NEUTRALIZING them before they can cause damage to cells. Stimulating the PRODUCTION of other antioxidants; SUPEROXIDE DISMUTASE and GLUTATHIONE.

Having a high affinity for lipid membranes, it PROTECTS cell membranes from oxidative damage -LIPID PEROXIDATION PROTECTION

MORE THEN 25 YEARS OF STUDIES ON ANTIOXIDANT CAPACITY OF SQUALENE

Study	Results
Aioi A. et al., 1995	Inhibition of O2- production by addiction of 100 mg/ml of Squalene
Buddhan S. et al., 2006	Inhibition of lipid peroxidation, increased levels of reduced glutathione, superoxide disputase by 2% of Squalene supplement
Motawi T. M. K. et al., 2010	Improvement of Glutathione peroxidase and Glutathione levels after 7 days of aplying 0,4 ml of Squalene
Gabás-Rivera C. et al., 2014	Decreased ROS in lipoprotens after taking 1g / kg of Squalene for 11 weeks
Ravi Kumar S. et al., 2016	Elevated mRNA expression of Superoxide dismutase and Glutathione peroxidase when supplemented with 2% Squalene for 4 weeks





SQUALENE'S HYDRATION DUAL SYSTEM

PENETRATION of Squalene (ACTIVE H2O SYSTEM)

acid mantle

(PASIVE H20 SYSTEM)

epidermis

dermis

microbiome

ACTIVE H20 SYSTEM

SQUALENE with its GREAT ability of PENETRATION to a deeper levels of the skin, provides the skin with new sources of hydration, REPLENISHING the skin's natural lipids.

PASIVE H20 SYSTEM

SQUALENE helps mainatain the skin barrier FUNCTION. Being the main compound of the LIPID LAYER, SQUALENE is crucial for preventing WATERLOSS from the skin.

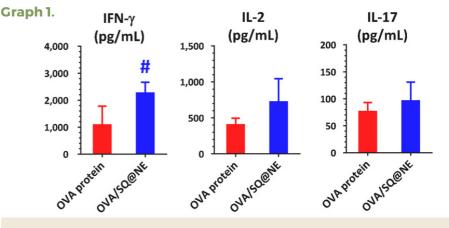


VAGINAL IMMUNITY BOOSTER AND LUBRICANT

SQUALENE is a VAGINAL ADJUVANT for the induction of mucosal and systemic IMMUNE RESPONSE

3 SQUALENE'S BENEFITS FOR VAGINAL HEALTH:

- Provides HYDRATION levels
- Drains LYMPH nodes
- Prevents VIRAL and BACTERIAL infections



Graph 1. The graph shows results of intravaginal immunization once a week for 3 weeks. OVA is the model protein antigen formulated with Squalene. SQUALENE is expanding and activating gene expressions responsible for the immune response.

Hui-Min Ho, Chiung-Yi Huang, Yu-Jhen Cheng, I-Hua Chen, Shih-Jen Liu, Chung-Hsiung Huang, Ming-Hsi Huang, Squalene nanoemulsion reinforces mucosal and immunological fingerprints following intravaginal delivery, Biomedicine & Pharmacotherapy, Volume 141, 2021,



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PRODUCT DESCRIPTION



PRODUCT CODE:	OLDV2023	
INCI NAME:	Olea Europaea Oil Unsaponifiables	Body oil - 2-8%
SOLUBILITY:	Liposoluble Great integration and carrier role of the non-soluble actives	Mosturizing cream - 1-4%
FORMULATION:	Squalene is incorporated in oil phase on a temp. 70-80 C.	Serum - 5-10% Balms - 1-5%
RECOMMENDED DOSAGE:	1 - 10%	

FORMULATION EXAMPLES





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