



(I) Supplier name	AMEDEO BRASCA & C. S.r.l. Via Celeste Milani, 24 21040 Origgio (VA) ITALY.								
(II) INCI name	SQUALENE								
(III) Regulatory information	Empirical Formula: / Chemical name : / <table border="1"><thead><tr><th>Components</th><th>CAS</th><th>EINECS</th><th>RANGE</th></tr></thead><tbody><tr><td>SQUALENE</td><td>111-02-4</td><td>203-826-1</td><td>100%</td></tr></tbody></table> European Pharmacopoeia : NA. Classification & labelling according to EEC Chemical regulation: This product is not subject to labelling, it does not contain any dangerous compounds (Substances health hazard Directives 67/548/EC, 99/45/EC and 1272/2008). Transport: not regulated.	Components	CAS	EINECS	RANGE	SQUALENE	111-02-4	203-826-1	100%
Components	CAS	EINECS	RANGE						
SQUALENE	111-02-4	203-826-1	100%						
(IV) Functions	Conditioning, emollient, refatting agent								
(V) Inventory position	Component(s) listed in EINECS : Yes. Component(s) listed in ELINCS : Component(s) listed in TSCA : yes. Component(s) listed in DSL : yes. Component(s) listed in AICS : yes. Component(s) listed in ENCS : yes. Component(s) listed in IECIC: yes Component(s) listed in CLS : Component(s) listed in JSCI : yes. Component(s) listed in JCIC : Component(s) listed in ECL : yes. Component(s) listed in Philippines : yes. Reported to NEPA inventory:								
(VI) Regulatory Status	None restricted limitation for personal care.								

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Sede Amministrativa e Operativa:
Via Celeste Milani, 22/24 - 21040 Origgio (Va)Tel. +39 0233512243 - +39 0233510150
Fax +39 0233549210
Web: www.brasca.it - Email: info@brasca.itP.I. - C.F. 00402300156
Capitale Sociale : 100.000 € i.v.
REA : MI - 0338916



(VII) Regulatory Conformity 76/768/ECC	<p><u>CMR</u> OLIFEEL SQ does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Repro toxic substances category 1, 2 or 3 according to annex I of the Directive 67/548/EC and its amendment.</p> <p><u>Allergens</u> We certify that OLIFEEL SQ complies with European Directive 2003/15/EC regarding the presence of the 26 substances identified as allergenic in cosmetic regulatory.</p> <p><u>TSE/BSE</u> We confirm that OLIFEEL SQ does not contain any BSE/TSE transmitting agents.</p> <p><u>Animal testing</u> We declare that no animal testing was made by Amedeo Brasca & C. srl for cosmetic use accordingly to Dir. 2003/15/EC, come into force on 11/03/2009.</p> <p><u>REACH</u> OLIFEEL SQ is conform to regulation n.1907/2006</p>
(VIII) Manufacturing flow chart	Olive oil → extraction → squalene oil → packaging Radiosterilisation: NO.
(IX) Specification	available.
(X) Material safety data sheet	available.
(XI) Toxicology Ecotoxicity Biodegradability information	<p><u>Toxicological information</u></p> <p><u>Acute toxicity</u> LD50 oral : Not Applicable*. LD50 skin : Not Applicable*. LD50 inhalation : Not Applicable*. NOAEL value (No Observable Adverse Effect Level) : Not available. ADI (Admissible Daily Intake): 22 mg/kg bw/day (WHO). Eye Irritation: not irritant. Skin irritation: not irritant.</p> <p>* <i>The product is considered not to be toxic.</i></p> <p>Material already used in cosmetic formulation: Yes.</p> <p><u>Ecological & Biodegradability information</u></p> <p><u>Ecotoxic effects</u> Daphnia toxicity : not soluble in water.</p>

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	<p>Seaweed toxicity: not soluble in water. Bacterial toxicity: not soluble in water. <u>General information:</u> The characteristic of degradation of the products have not been tested. <u>Disposal indications:</u> Accumulation: no data available. Environmental impact: not toxic for environment.</p> <p>PBT: No vPvB: No H400-H410: No.</p>
(XII) Unavoidable impurities and possible traces of contaminants (typical values- not specifications)	<p>Complying Reg. 2092/91/EC (further up-dating Reg. 834/2007/EC and 889/2008/EC) requirements. SVHC: absence. Heavy metals: absence. Pesticides : absence. GMO: absence. Fruits and nuts traces: No Residual solvents: absence. Polycyclic Aromatic Hydrocarbons : absence. Free amines : absence. Phthalates: absence. Glycol ethers: absence. Formaldehyde: absence. Ethylene oxide: absence. NanoMaterials: absence. Other impurities or residues : absence.</p>
(XIII) VOC content (according to EEC regulation)	<p>We confirm that OLIFEEL SQ does not contain any volatile organic compounds accordingly to Reg. 2092/91/EC (further up-dating Reg. 834/2007/EC and 889/2008/EC).</p>
(XIV) Additives	<p>Neutralisers: no. Preservatives: no. Antioxidants: no. Stabilisers: no. Catalysts: no. Bleaching agents: no. Chelating agents: no. Ethanol: no</p>

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(XV) Ingredients origin	<p><u>Synthetic</u>: no. Ingredients origin: NA</p> <p><u>Animal</u>: no Animal Protection (338/97): NA</p> <p><u>Vegetable</u>: yes. Plant name: Olive Extraction Process: extract Plant protection (338/97): NA GMO: no.</p> <p><u>Mineral</u>: no.</p> <p><u>Biotechnological processing</u>: no.</p> <p><u>Polymer</u>: no Monomers: NA. Monomers origin: NA Monomers CMR or vPvB: NA.</p>
(XVI) Quality management system	In process.
(XVII) Enviromental management system	In process
(XVII) Properties	<p>SQUALENE is an important cosmetic active ingredient, naturally present in the human skin sebum. It has an emollient and moisturizing effect, and gives a velvety feel to the skin. Squalene, which however has a very different molecular conformation and is not naturally present in the skin.</p> <p>A high-purity squalene is desirable to facilitate its formulation in emulsion. OLIFEEL SQ is a highly purified squalene, with a 96% purity, which is amongst the purest on the market, for an easier formulation. Furthermore, its exceptionally high purity prevents degradation and coloring, since may impurities that may catalyze/promote oxidation are removed.</p> <p>Vegetable squalene predominantly originates from the Mediterranean basin, in the olive tree cultivations area.</p>
(XVIII) Personal Care Applications	<p>SQUALENE has lighter consistency compared to olive oil and to most of the other vegetable oils commonly used in cosmetic. When applied to the skin its absorption rate is extremely high and swift. It's non greasy and little or no residue is left on skin. It leaves the feel of a supple, smooth and moisturized skin. It can</p>

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be easily incorporated in all kind of cosmetic products, the dosage can vary from 0,5 to 10%. The product demonstrated to be effective starting from the dose of 1% , as skin softening and to reduce the irritating activity of surfactants and soaps. For an effective anti-wrinkle, anti-stretch marks and healing efficacy a dose above 5% should be advisable.

The double bonds give the molecule a strong susceptibility to oxidation and polymerization, thickening to a viscous darker mass when exposed to air. It's incompatible with the use of BHA and BHT, because the finished cosmetic products yellow with time. Tocopherol and Ascorbyl palmitate should be favourite as anti-oxidants.

OLIFEEL® SQ can be considered a specific active ingredient for functional cosmetics since the demonstrated emollient, moisturizing and restoring effects on skin. The product is therefore recommended for cosmetic formulations (creams, lotions, stick and oils) specifically designed for sensitive, dry, chapped cracked or simply aged skins.

Being rich in phytosterols and triterpenic alcohols, it provides a stabilizing activity when inserted in emulsions. Specially its use at the dosage of 8-10% can provide an excellent stabilizing effect for W/O or W/S emulsions, as a valid alternative to other stabilizing agents. In fact the light, non greasy touch can make these kind of products more agreeable under the sensorial profile while enriching them with an easily demonstrable additional efficacy.

Primary use is therefore in cosmetic skin care preparations such as:

- moisturizing and anti-wrinkle creams, both O/W and W/O
- cleansing milks and creams
- Massage and bath oil
- Sun care and after-sun care products
- Creams preventing stretch marks

Its filming, conditioning, smoothing and restructuring properties make **OLIFEEL® SQ** very interesting also for hair care applications (hair care mask, balsam , oil...).

It can reduce the irritation caused by surfactants, thus its use can be very useful (0,5-1%) in bar soaps and syndets, to improve the mildness and the skin feel after the rinse-off. For the same reason it could be incorporated in toiletries such as creamy bath and shower gels.

The interesting skin feel (smoothing and soft with an improved spreadibility) and the activity claim makes this product highly interesting also for "functional make-up ":

- poured and fluid foundations, lipsticks and pressed powders with an additional moisturizing, protecting effect.

Mascara with a strengthening and conditioning effect on eye-lashes.

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	<p><u>We suggest to use:</u></p> <p>Lipsticks (0.5 - 2%). Emulsions (0.5 - 10%). Balms and pomades (0.5 - 10%). Cold creams (0.5 - 10%). Mascaras (0.5 - 2%). Depilatory waxes (0.5 - 5%). Pencils (0.5 - 2%).</p>
(IXX) Formulation	Brasca has used OLIFEEL SQ in different formulation for personal care applications. Please visit our web site www.brasca.it .
(XX) Efficacy test	/
(XXI) Storage and handling	Store in the original sealed containers, in a fresh (35°C max.) and dry place, protected from light and heat sources. Material do not need homogenisation before use. Stability: stable material.
(XXII) Shelf Life	24 months from the production date, in the original sealed containers.
(XXIII) Contact person	Adriano Busetti, adriano.busetti@brasca.it

THE INFORMATION CONTAINED IN THIS RAW MATERIAL DATA SHEET ARE BASED ON OUR CURRENT SCIENTIFIC KNOWLEDGE. THE INFORMATION ARE CAREFUL AND RELIABLE BUT IT SHOULD NOT BE TAKEN AS EXPRESSING OR IMPLYING ANY WARRANTY CONCERNING THE PRODUCT CHARACTERISTICS. THE RULES AND LAWS IN ACT MUST BE RESPECTED BY PRODUCT USER, UNDER HIS OWN RESPONSIBILITY. AMEDEO BRASCA & C. SRL DECLINES ANY RESPONSABILITY IN CASE THE USE OF THIS PRODUCT INFORMATION MIGHT TAKE TO PATENT INFRINGEMENT. THE PRESENT SHEET SUBSTITUTES AND CANCELS EVERY PREVIOUS VERSION.

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