

# SQUALANE

## PRODUCT DATA SHEET



**SQUALANE** is one of the most appreciated natural emollients used in Cosmetic Formulations.

**SQUALANE** possesses a great affinity to the skin and is present in our skin being one of the main components in human sebum.

**SQUALANE** possesses, at the same time, qualities for spreadability and skin

absorption.

**SQUALANE** is soft, silky, non greasy touch and its total stability and complete innocuousness make it an irreplaceable base for high quality cosmetic emulsions.

**SQUALANE** is appreciated also due to its vegetable origin, and is odourless, colourless and tasteless. The raw material to produce **SQUALANE** is vegetable squalene that comes from the deodorization process that is used in an important part of the marketed olive oil. This process consists in blowing steam through heated oil held under a high vacuum. Small quantities of volatile components, responsible for strong taste and bad odour distil, pulling off at the same time with olive oil fatty acids and unsaponifiable components, including Squalene. This product is converted to **SQUALANE** by a hydrogenation process, stabilizing the product.

### TECHNICAL DATA

<b>Specific gravity (20°C):</b>	0.810 - 0.815 g/ml
<b>Refractive index:</b>	1.4520 - 1.4560
<b>Acid Value:</b>	≤ 0.10 mg KOH/g
<b>Iodine Value:</b>	≤ 4 g I <sub>2</sub> /100 g
<b>Saponification index:</b>	≤ 1 mg KOH/g
<b>Gas chromatography assay:</b>	≥ 92.0 %

# SQUALANE



## APPLICATION

**SQUALANE** may be applied in all cosmetics formulation at 2 - 30% depending on type of application.

**SQUALANE** is an ideal component in cosmetic formulations fitting perfectly with human sebum where its content is

around 12%.

## SAFETY DATA

Primary skin irritation test:	Not irritant
Repeated skin irritation test:	Not irritant
Eye irritation test:	Slightly irritant
Sensitization test:	Not sensitizing
LD <sub>50</sub> Oral in rat:	> 2,000 mg/kg
Mutagenicity test:	Not mutagenic
Human patch test:	Pass
Allergen:	Not allergenic

**SQUALANE**

<b>CUSTOMER</b>	VARIOS-001	<b>MANUFACT. DATE</b>	10-2008
<b>BATCH Nº</b>	1510E004854	<b>ANALYSIS DATE</b>	10-2008
<b>DELIVERY</b>	ALTA	<b>DATE OF EXPIRY</b>	10-2010

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<b>SPECIFICATION</b>	00050403	<b>CERTIFICATE Nº</b>	20267	<b>EDITION DATE</b>	21/11/08
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<b>PARAMETERS</b>	<b>SPECIFICATIONS</b>	<b>RESULTS</b>
Appearance (at 20°C)	Clear oil, colorless and odorless.	Pass Test
Solubility	Soluble in natural oils and non polar organic solvents. Insoluble in water.	Pass Test
Specific Gravity (at 20°C)	0.810 - 0.815	0.811
Refractive Index (at 20°C)	1.4520 - 1.4560	1.4520
Acid Value	max. 0.1	0.01
Saponification value	max. 1.0	0.1
Iodine Value	max. 4.0	1.5
Assay Squalane	min. 92.0 %	PassTest

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**Observations**

STEEL DRUMS 170 KG NET, PLASTIC DRUMS 25 KG NET.

SHELF LIFE: 24 MONTHS IN ORIGINAL UNOPENED PACKAGING.  
KEEP FULL AND WELL CLOSED IN A DRY PLACE AWAY FROM LIGHT.

**Conclusion**

COMPLIES WITH SPECIFICATIONS