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's 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**

- **Specific gravity (20°C):** 0.810 - 0.815 g/ml
- **Refractive index:** 1.4520 - 1.4560
- **Acid Value:** ≤ 0.10 mg KOH/g
- **Iodine Value:** ≤ 4 g I$_2$/100 g
- **Saponification index:** ≤ 1 mg KOH/g
- **Gas chromatography assay:** ≥ 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$_{50}$ Oral in rat:** > 2,000 mg/kg
- **Mutagenicity test:** Not mutagenic
- **Human patch test:** Pass
- **Allergen:** Not allergenic

**INCI Name:** Squalane

Updated: 08/2007