



A Joint Venture of Amyris & NIKKOL GROUP

## Technical Data Sheet - Neossance™ Squalane

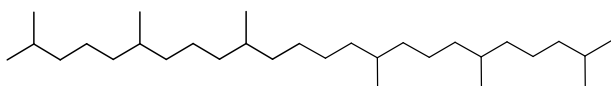
Product name: Neossance™ Squalane

CAS number: 111-01-3

EINECS number: 203-825-6

IUPAC name: 2,6,10,15,19,23-hexamethyltetracosane

INCI name: Squalane



Molecular formula: C<sub>30</sub>H<sub>62</sub>

Molecular weight: 422.81

### Product Description

Neossance™ Squalane is sustainably sourced from sugarcane. It is one of the highest quality and most versatile emollients on the market due to its sensorial profile, biocompatibility and consistently robust composition. It is a non-polar, fully saturated and very stable hydrocarbon that is easily incorporated into emulsions, and is compatible with most cosmetic ingredients. It is an excellent moisturizer, keeping your skin and your hair properly hydrated and imparting suppleness and flexibility to the skin.

### Typical Properties

Test Description	Typical Value	Unit of Measurement
Squalane Content by GC	94	Area %
Density @ 20 °C	0.810	g/cm <sup>3</sup>
Refractive Index @ 20 °C	1.452	
Iodine Value	< 0.2	g I <sub>2</sub> /100 g
Acid Value	< 0.1	mg KOH/g
Total Ash	< 0.1	%
Appearance and Color	Colorless liquid	
Odor	Nearly odorless	
Saponification Value	< 0.2	
Viscosity @ 20°C	35	cP
Surface Tension @ 20°C	28.9	mN/m
Flash Point	218	°C
Pour Point	< -55	°C

The typical properties and ranges shown are typical values, not for specification purposes. For sales specifications, please contact your local sales representative.

### Quality Compliance

Neossance Squalane is manufactured in accordance with ISO 22716 Cosmetics Good Manufacturing Practices (GMP).

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**Peace of Mind Ingredient**

Sustainability	Features and Benefits	Proven Performance**
<ul style="list-style-type: none"> <li>Derived from plant sugar</li> <li>Renewable source</li> <li>Biodegradable</li> <li>ECOCERT-approved</li> <li>USDA certified 100% Bio-based</li> </ul>	<ul style="list-style-type: none"> <li>Consistent composition</li> <li>Non-polar, fully saturated</li> <li>Stable to heat, cold, oxidation</li> <li>Chemically inert</li> <li>Non-comedogenic</li> <li>Non-irritating</li> <li>Non-sensitizing</li> </ul>	<ul style="list-style-type: none"> <li>Increases cell turnover</li> <li>Provides long-lasting moisturization</li> <li>Decreases skin roughness</li> <li>Reduces the appearance of fine lines and wrinkles</li> <li>Improves skin elasticity</li> <li>Provides heat protection and strengthens hair</li> <li>Penetrates the hair shaft</li> </ul>

**Applications**

Skin, hair, sun and body care, makeup, cleansers

Recommended Usage	up to 100%
Required HLB	12 ± 1
Solubility	Oil soluble; water insoluble
Spreadability	Good
Compatibility	Compatible with silicones, lipophilic ingredients
Polarity	Non-polar

**Storage and Packaging**

Shelf-life and Storage	36 months in unopened, original packaging; stored in a dry and mild environment at ambient temperature, and away from heat sources and light
Packaging	17 kg (Jerricans), 164 kg (Drums), 832 kg (Totes)

**Regulatory Status**

There are no known regulatory restrictions of Neossance Squalane. Squalane appears on the following regulatory inventories:

Country/List	
Australia: AICS	Mexico: INSQ
Canada: DSL	New Zealand: NZIoC
China: IECSC, IECIC (2015)	Philippines: PICCS
European Union: REACH registered	Russia: TR TS 009/2011
Japan: ENCS	United States: TSCA
Korea: KFDA, KECI/KECL	

\*\*Purchasers of Neossance Squalane from Aprinova are solely responsible for ensuring compliance of their cosmetic products with all applicable regulatory requirements, including claims regarding the effect of Squalane on skin and hair.