



# Versagel<sup>®</sup> SQ

Exceptional Moisturizing Gelled Squalane  
by *penreco*<sup>®</sup>

## A Better Way To Formulate



# VERSAGEL® SQ PRODUCT LINE

## Exceptional Moisturizing Gelled Squalane

Versagel® SQ is a great additive or substitute in both oil-based formulas and emulsions. Versagel SQ is a gelled squalane product, which is naturally present in the skin lipid barrier and is an ingredient known for its exceptional moisturizing abilities and its ability to penetrate the skin to deliver benefits.

Like jojoba, it closely mimics the body's natural moisturizers and is absorbed quickly and effectively, without leaving greasy residue on the skin. Squalane is a non-GMO, plant-derived ingredient and Versagel SQ is a high-quality replacement for shark and olive squalene. It is derived from plant sugar, is ECOCERT approved, and is readily biodegradable as well.

### APPLICATIONS

Versagel SQ is a versatile ingredient which works well in skin care, sun care and baby care. In skin care, it helps to facilitate an even distribution of the active sunscreen ingredients. In baby care, it softens the skin and is easily absorbed. In makeup, it facilitates the even application of products such as lipsticks, foundations, and hot-poured products such as lip balms, glosses and gels. It also is a useful ingredient in hair care products, as it lends a soft after-feel to shampoos, conditioners and styling products.

### VERSAGEL SQ TYPICAL PROPERTIES

	VERSAGEL SQ 500 T	VERSAGEL SQ 1600 T
Viscosity @ 25°C (cPs)	52,000	138,000
Specific Gravity 25°C	0.81	0.81
Saybolt Color D-156	+28	+30
Flash Point °C ASTM D-92F	>218	>218

### FORMULATION BENEFITS

- Non-Polar, Colorless and Odorless Liquid
- Stable to Oxidation, Heat, Cold and UV
- Easily Incorporated into Emulsions
- Compatible with most Cosmetic Ingredients
- Spreads Easily and is Rapidly Absorbed into the Epidermis
- Highly Moisturizing, Softens and Soothes
- Creates very Elegant Textures
- Leaves the Skin Smooth without a Greasy, Sticky or Heavy After-Feel

\*Data provided pertains to pure Neossance® Squalane, not in gelled form.

### SAMPLE FORMULATION

#### ANGRY BEARD

A healthy softening beard oil with a delicate scent

Raw Materials		% w/w	Supplier
<b>PHASE A</b>			
VERSAGEL SQ 1600 T	Squalane, Ethylene/Propylene/Styrene Copolymer, Butylene/Ethylene/Styrene Copolymer, Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	35.995	Penreco
DUB VCI 10	Isodecyl Neopentanoate	30.00	St. Dubois
<b>PHASE B</b>			
BLANOVA CM 52	Cyclopentasiloxane	20.00	Azelis
SENSOLENE	Ethylhexyl Olivat	3.00	Hallstar
<b>PHASE C</b>			
BLANOVA SWEET ALMOND OIL	Almond Oil	8.00	Azelis
GOLDEN NATURAL JOJOBA OIL	Simmondsia Chinensis Seed Oil	1.00	Eco Oil Argentina
ARGAN OIL	Argania Spinosa Kernel Oil	1.00	Biochemica
ORGANIC GRAPEFRUIT ESSENTIAL OIL	Citrus Paradisi (Grapefruit) Peel Oil	1.00	Bio-Botanica
ASTATROL HP	Astaxanthin, Caprylic/Capric Triglycerides, Tocopherol	0.005	Fuji

#### MIXING INSTRUCTIONS

Heat under mixing the Versagel SQ 1600 T up to -85°C. Add under mixing the DUB VCI 10 to the Versagel then mix until a smooth clear fully homogeneous gel is obtained (phase A). Let cool down. At T < 50°C, add under mixing the ingredients of phase B into phase A then mix until a fully smooth homogeneous gel is obtained. Add under mixing the ingredients of phase C to the phase AB then mix until a fully homogeneous oil gel is obtained.

FOR SAMPLES AND MORE INFORMATION CALL: **1-800-245-3952**

OR VISIT US ONLINE AT: **[www.penreco.com/hydrocarbon-gel](http://www.penreco.com/hydrocarbon-gel)**

**penreco**

138 Petrolia St., Karns City, PA 16041

Phone: 800-245-3952 or 724-756-0110 Fax: 724-756-1050

Email: [penreco@clmt.com](mailto:penreco@clmt.com) Web: [www.penreco.com/hydrocarbon-gel](http://www.penreco.com/hydrocarbon-gel)

Manufacturing specifications are confirmed upon request.

Product Specifications are subject to change.

All product sales are subject to the applicable terms and conditions.

Calumet Refining, LLC is a wholly owned subsidiary of Calumet Specialty Products Partners, L.P.

© 2019 Calumet Specialty Products Partners, L.P. All rights reserved.