

Technical Data Sheet

VV™ KeraSil™ 1X

INCI Name: Octyl Triethoxy Silane (and) Isopropyl Myristate (and) Isopropyl Palmitate (and) Hydrolyzed Keratin (and) Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate (and) Tocopherol (and) Phenoxyethanol

Revision 00

Effective Date: April 2026

Description

VV™ KeraSil™ 1X liquid is a unique blend of Oil Soluble Hydrolysed Keratin Nano-Peptides in a highly substantiating base with Octyl Triethoxy Silane. It may be used in a wide range of personal care applications such as skin care, colour cosmetics including nail care, sun care, hair care. Low molecular weight peptides (Nano-Peptides) can efficiently penetrate keratin layers and thus help to maintain keratin's structural integrity and repairs damage while the higher molecular weight keratin peptide forms a protective layering promoting smoothness and shine. **VV™ KeraSil™ 1X** remains smooth and undamaged. Due to the low molecular weight and the small size, the hydrolysed keratin Nano-Peptides go beyond the cuticle, penetrate the damaged keratin layer (Hair, Skin and Nails) and reduces damage. When the broken-down protein fills these microscopic gaps, damaged hair and skin gets the strength to minimize damage from chemical treatments, heat styling, mechanical manipulation and the sun. In all products, **VV™ KeraSil™ 1X** can enhance the wash-off resistance.

Typical Properties

Property	Value
Appearance	Light Yellow coloured transparent to slightly hazy liquid
Odour	Characteristic
Oil Soluble Keratin Peptides Content (based on Supplier COA)	NLT 1.0%
Solubility	Soluble in Oil Bases
Peptides -Molecular Weight (Range) (Based on Supplier COA)	0.50 - 30 kDa

These figures are only intended as a guide and should not be used in preparing specifications.

Note: VV™ KeraSil™ 1X Keratin Nano-Peptides are of Vegan origin and does not contain animal protein, fiber presence or animal DNA.



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Properties

VV™ KeraSil™ 1X

- moisturizes hair
- makes frizzy hair smooth and manageable
- improves wet and dry combability
- increases hair/skin/nail hydration
- enhances overall hair & skin feel
- repairs damaged keratin layers of the hair/skin/nails

Incorporation

Can be added to formulas as is. Add to Oil -phase of formula.

Areas of Application

- Lip Products
- Make-up Products including nail care products
- Creams/Ointments
- Hair Preparations
- Sunscreens

Levels Of Use

5% – 100%

Storage

Store in a cool and dry place, in a closed container. Store away from excessive heat. Shelf-life is 12 months from date of production.

Safety and Handling:

No special protection required while handling. Material Safety Data Sheet available on request.

Packaging:

Available in 5L & 20L Jerry Can.

Disclaimer:

Customers must evaluate **VV™ KeraSil™ 1X** and make their own determination as to fitness of use in their applications. The data and statements contained herein are based on our research and/or the research of others and are believed to be accurate. No guarantee of their accuracy is made however, and unless expressly stated in a written



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