

Technical Data Sheet

VV™ KeraSil™ 3X

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™ 3X 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™ 3X** 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™ 3X** 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 3.0%
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™ 3X Keratin Nano-Peptides are of Vegan origin and does not contain animal protein, fiber presence or animal DNA.



Technical Data Sheet

VV™ KeraSil™ 3X

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

Properties

VV™ KeraSil™ 3X

- 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™ 3X** 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



Technical Data Sheet

VV™ KeraSil™ 3X

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

contract, the product(s) discussed herein are sold without conditions or warranties, expressed or implied. Purchasers are advised to make their own tests to determine the suitability of this product for their purposes. Nothing contained herein shall be construed as a recommendation to use or as a license to operate under or to infringe on any existing patent.