

# Introducing <sup>14</sup>Si APP™



Featuring the unparalleled skin safety, versatility, and performance benefits of silicones in personal care applications



## THE POLYSILICONE-11® ADVANTAGE:

- Unparalleled skin safety (non-irritating, non-comedogenic, OTC and medical applications)
- Reliability and reproducibility (odorless, colorless, consistent quality, chemically stable)
- Exceptional sensory performance (proven consumer soft touch experience and acceptance)
- Enhanced delivery of actives (stabilizing matrix improves efficacy)
- Multifunctional value-added benefits (a sensorial modifier with optical light diffusing properties)
- Versatile delivery substrate options to meet various formulation requirements

See below for our new **GRANSIL ALKANE-BASED ELASTOMER SERIES!**

## SILICONE EDUCATION AND FACTS:

- Silicones are synthetic molecules containing silicon atoms. Silicon and oxygen are the two most abundant elements (by weight) found on the earth's crust. In nature silicon exists as silica, silicone dioxides and silicates in the form of sand, clays, and other minerals.
- Silicones are polymers which include synthetic compounds made up of repeating units of siloxane - a chain of alternating silicon atoms and oxygen atoms, frequently combined with carbon or hydrogen or both.
- **There are many types of silicone-based ingredients and not all should be classified the same way.** Silicone reactive intermediates are very different from silicone elastomer polymers and silicone cyclic and linear fluids.

## ABOUT POLYSILICONE-11® CHEMISTRY:

- Polysilicone-11® is a large molecular weight inert crosslinking polymer prepared from silicone intermediates.
- Polysilicone-11® has no negative health or safety concerns. This elastomer offers maximum safety by remaining on the skins' surface as a sensorial and visual modifier delivery substrate to enhance the performance of cosmetic formulations.
- Polysilicone-11® swells in the presents of volatile and non-volatile silicones, alkanes and other solvents to form a gelatinous suspension of silky soft particles which are dispersible in creams, lotions, gels and makeup formulations.

## THE BENEFITS OF NATURE AND SCIENCE COMBINED

PRODUCTS	INCI	OPTIONS/PERFORMANCE
<b>GRANSIL GVL-LITE</b>	C9-12 Alkane (and) Polysilicone-11	Plant-origin high volatile emollient gel with flash point of 65C
<b>GRANSIL GVL-912</b>	C9-12 Alkane (and) Polysilicone-11	Plant-origin medium volatile emollient gel with flash point of 75C
<b>GRANSIL OGH</b>	Undecane (and) Tridecane (and) Polysilicone-11	Plant-origin low volatile emollient gel with flash point of 81C
<b>GRANSIL SUG</b>	C13-15 Alkane (and) Stearoxymethicone/Dimethicone Copolymer	Fermented plant-origin modified alkane in a copolymer gel structure with flash point of 110C

\*All **GRANSIL ALKANE-BASED ELASTOMER** materials are globally compliant and vegan.



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**SAFETY**



**DELIVERY**



**RELIABILITY**



**VALUE**



**SENSORY**



**VERSATILITY**

See our new  
**GRANSIL ALKANE-BASED  
ELASTOMER SERIES!**



**GRANT INDUSTRIES**  
*Where Performance Matters*