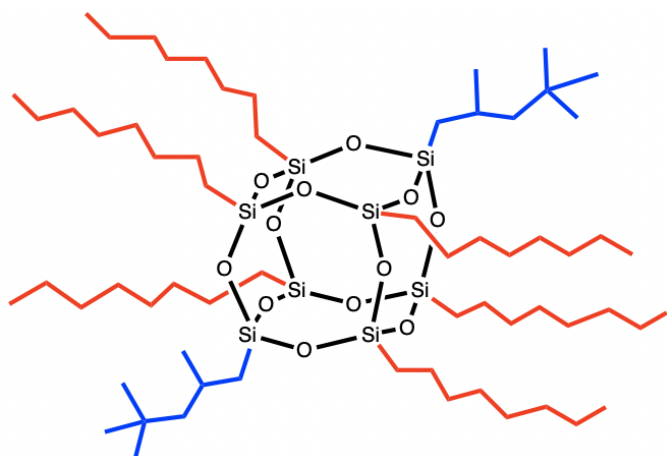


Octyl POSS[®]

Cage Mixture



APPLICATIONS

Lubrication, gloss enhancement, and plasticizer.

TYPICAL PROPERTIES

Appearance	Colorless to pale-yellow liquid
Viscosity (@25°C)	.305 - .375 Pa-s
Chemical Formula	C ₆₄ H ₁₃₆ O ₁₂ Si ₈
Refractive Index	1.458 @18.8 °C
Formula Weight	1322.46
TGA @ 5% mass loss	286 °C

REGULATORY STATUS

CAS, INCI, TSCA, REACH pending.
Not a primary dermal irritant.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical health and hazard information. For material safety data information, contact Hybrid.



SUGGESTED FORMULATION

HC1019.13 can be utilized & mixed readily with nearly all oils & waxes and hydrocarbons.

HC1019.13 can enhance gloss, dispersion, and reduce viscosity.



DESCRIPTION

HC1019.13 is a hybrid molecule with an inorganic silsesquioxane at the core and organic *n*-Octyl and *i*-Octyl groups attached at the corners of the cage. It is very stable and does not aggregate nor crystallize. This additive is extremely useful for plasticization and lubrication, modulus build in silicones, and melt strength enhancement in polyolefins.

COMPATIBILITY

Water	Not Soluble
Alcohols	
Ethanol (95%)	Not Soluble
iPropanol (91%)	Not Soluble
Butanol (99%)	Soluble
Solvents & Propellants	
Hexane (aliphatics)	Soluble
PGMEA	Not Soluble
Cosmetic Materials	
Beeswax	Soluble
Mineral Oil	Soluble
Petrolatum	Soluble
Shea Butter	Soluble
DC556 (PhSi(OSiMe ₃) ₃)	Soluble
Veggie Oil	Soluble

Expanded TGA Profile: 200-400 °C

