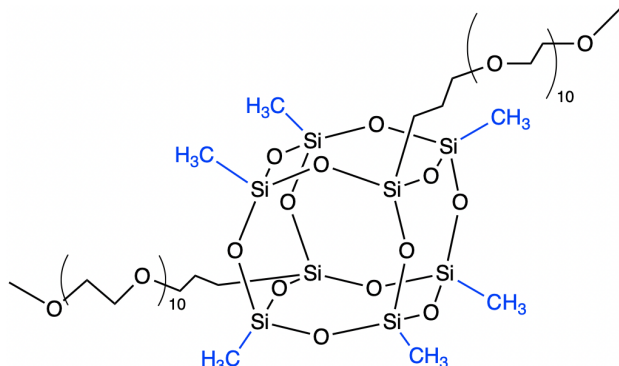


Methyl PEG POSS[®]

FEATURES: Hazy to clear, colorless to pale yellow dispersion additive with inherent UVB/C sorption.



APPLICATIONS

Color and filler dispersions. May improve hardness and modulus in glassy coatings.

TYPICAL PROPERTIES

Appearance	Colorless to pale-yellow liquid
Viscosity (@25°C)	0.21-0.31 Pa-s
Chemical Formula	C ₈₄ H ₁₂₈ O ₃₄ Si ₈
Refractive Index	1.4566 @21.4 °C
Formula Weight	1534.17 (octamer)
Resin Solubility	Epoxy, urethane, aromatic resins

REGULATORY STATUS

R&D use during pending approval processes
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.

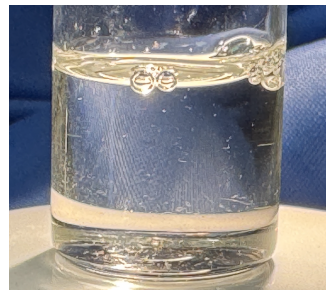


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SUGGESTED USES

Can provide dispersion and compatibility with viscosity reduction. Readily wets pigments. Loadings <0.25 wt%

Can provide plasticization at high loading levels. Loadings >1wt%



DESCRIPTION

An inorganic silsesquioxane core combining organic methyl and PEG10 groups attached at the corners of the cage. HC1317.13 is very stable and does not agglomerate.

COMPATIBILITY

Water	Insoluble
Alcohols	
Ethanol (95%)	Soluble
Ethanol (70%)	Soluble
iPropanol (99%)	Soluble
iPropanol (70%)	Soluble
Solvents & Propellants	
Hexane (aliphatics)	Soluble
PMGEA	Soluble
Resins & Oligomers	
Bis-A, F epoxy	Soluble
Aromatic/aliphatic amines	Soluble
Urethane Oligomers	Miscible
Acrylic Oligomersl	Soluble

ADDITIONAL DETAILS

Methyl PEG POSS[®] is provided as a mixture of cages sizes 8, 10, 12. The organic groups are randomly distributed around each cage core. The molar ratio is 2:6 for HC1317.13. The structure shown is idealized.

The distribution of cage size, and functionality around the cage core is analogous to that for functional copolymers.

Heteroleptic Cage POSS are represented by the catalog designation HC.

ADDITIONAL MOLAR RATIOS ARE AVAILABLE