

Dynasytan® OCTEO

Octyltriethoxysilane

Technical data

Properties and test methods	Value	Unit	Method
Boiling point (1013 hPa)	265/ 509	°C/ °F	DIN 51751
Density (20 °C / 68 ° F)	0.88	g/cm ³	DIN 51757
Viscosity (20 °C / 68 ° F)	2/ 2	mPa's / cSt	DIN 53015
Flash point	> 93/ 199	°C/°F	DIN EN ISO 2719

Registrations

Dynasytan® OCTEO

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECSC (P.R. China):	Yes
ENCS (Japan):	Yes
ECL (South Korea):	Yes
NZIoC (New Zealand)	Yes

Dynasytan® OCTEO is a monomeric medium-chain alkylfunctional silane.

Dynasytan® OCTEO is a clear colourless liquid and soluble in common non-polar organic solvents (e.g. petroleum ether, toluene). However its low volatility and viscosity make

Dynasytan® OCTEO an easy-to-handle additive. During the hydrolysis reaction between water and **Dynasytan®** OCTEO a certain amount of ethanol (VOC) is released.

Safety and handling

Before considering the use of **Dynasytan®** products please read its Material Safety Data sheet (MSDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website www.dynasytan.com or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com.

Packaging and storage

Dynasytan® OCTEO are available in 25 kg, 175 kg and 870 kg drums/ containers. In the unopened container **Dynasytan®** OCTEO silane has a shelf life of at least one year.

Properties and application

Dynasylan[®] OCTEO silane can be used as a surface modifier to generate hydrophobicity on inorganic fillers and pigments, e.g. titandioxide. The medium-chain alkyl functionality results in unique compound properties when **Dynasylan**[®] OCTEO treated minerals or pigments are incorporated into polymers, e.g. polyethylene or polypropylene. Loading levels of 0.5 to 1.5wt.% **Dynasylan**[®] OCTEO based on the weight of filler or pigment are typically recommended.

Reactivity

Key Benefits:

Because of its unique structure, **Dynasylan**[®] OCTEO exhibits superior hydrophobicity on substrates and forms weather- and moisture-resistant bonds to substrates as well.

Use of **Dynasylan**[®] OCTEO silane results in:

- compatibility improvements between pigments or inorganic fillers and organic polymers or solvents, allowing easy pigment (e.g. iron oxides or titanium dioxide) or mineral filler (e.g. ATH, MDH) dispersion

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