

Dynasylan® 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

Dynasylan® 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

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

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

Safety and handling

Before considering the use of Dynasylan® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available after registration on our website www.dynasylan.com or upon request from your local representative, customer service or from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging, storage and shelf life

Dynasylan® OCTEO is supplied in 25 kg pails, 175 kg drums and 870 kg IBC's.

In the unopened container Dynasylan® OCTEO silane has a shelf life of min. 12 months from delivery.

Properties and applications

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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