Dynasylan®

Product Information

Dynasylan® OCTMO

Octyltrimethoxysilane

PRODUCT DESCRIPTION

Dynasylan® OCTMO is a monomeric medium-chain alkyl-functional silane.

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

Typical Properties

Property	Unit	Value
Appearance		clear colourless liquid
Boiling Point (1013 hPa) DIN 51751	°C	≤246
Chemical Name		Octyltrimethoxysilane
Density (20 °C) DIN 51757	g/cm³	~0.91
Flash Point DIN EN ISO 2719	°C	≤102
Viscosity (20 °C) DIN 53015	mPa·s	2

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

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

BENEFITS & ADVANTAGES

Because of its unique structure, Dynasylan® OCTMO exhibits hydrophobicity on substrates and forms weather- and moisture-resistant bonds to substrates as well. Use of Dynasylan® OCTMO 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.

HANDLING & PROCESSING

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 on our website https://silanes.evonik.com/en or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

PACKAGING

Dynasylan® OCTMO is available 870 kg bulk containers.

Pails (25 kg) and drums (190 kg) are available as MTO.

SHELF LIFE

In originally, unopened containers Dynasylan® OCTMO has a shelf life of min. 12 months from delivery.

Registration Listings

Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Information on Request
China (IECSC)	Yes
EU (EINECS/ELINCS)	Yes
EU (REACH)	Yes

Registration Listings	
Registry	**Status**
Japan (ENCS)	Yes
South Korea (KECL)	No
Philippines (PICCS)	Yes

Registration Listings	
Registry	**Status**
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Smart Effects
Rodenbacher Chaussee 4
63457 Hanau
Germany
ask-se@evonik.com
ask-se-asia@evonik.com
ask-se-americas@evonik.com
www.evonik.com/smarteffects