

## Product Information

# Dynasylan® TRIAMO

## Triamino-functional propyltrimethoxysilane

### PRODUCT DESCRIPTION

Dynasylan® TRIAMO is an organofunctional silane possessing three reactive amino groups and a hydrolyzable trimethoxysilyl group. The dual nature of its reactivity allows Dynasylan® TRIAMO to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermosets, thermoplastics, elastomers), thus functioning as an adhesion promoter and surface modifier. Dynasylan® TRIAMO is a clear, light to dark yellow liquid with a slight amine-like odor. It is soluble in alcohols, ketones, esters and aliphatic and aromatic hydrocarbon solvents.

#### Typical Properties

Property	Unit	Value
<b>Boiling Point</b> (3 hPa) DIN 51356	°C	≤114
<b>Chemical Name</b>		N''-2-Aminoethyl-N'-2-aminoethyl-N-3-aminopropyl-trimethoxysilane
<b>Color</b>		colorless to yellow
<b>Density</b> (20 °C) DIN 51757	g/cm <sup>3</sup>	~1.04
<b>Flash Point</b> DIN EN ISO 2719	°C	≤164
<b>Refractive Index</b> (20,D) DIN 51423		1.46
<b>Viscosity</b> (20 °C) DIN 53015	mPa·s	23

The data represents typical values (no product specification)

### TYPICAL APPLICATIONS

Dynasylan® TRIAMO is used in applications such as:

- PVC-pastisols as an additive (ca. 0.5-1%) to improve adhesion between PVC and metals
- Foundry resins

### BENEFITS & ADVANTAGES

Important product effects that can be achieved through the use of Dynasylan® TRIAMO include:

- Improved adhesion
- Improved moisture and corrosion resistance

### DOSAGE

Dynasylan® TRIAMO may be added to polymer matrix as an additive. In the presence of water, the methoxy (Si-OCH<sub>3</sub>) groups of Dynasylan® TRIAMO hydrolyze to form reactive silanol (Si-OH) groups which can bond to a variety of inorganic substrates. The amine groups of Dynasylan® TRIAMO can react with a suitable polymer. Dynasylan® TRIAMO may be used with PVC and silicones.

### 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](mailto:sds-hu@evonik.com).

### PACKAGING

Dynasylan® TRIAMO is supplied in 25, 200 kg drums and 950 kg IBC container.

### SHELF LIFE

In an unopened container Dynasylan® TRIAMO has a shelf life of min. 12 months from delivery.

#### Registration Listings

Registry	Status
<b>Australia (AIIC)</b>	Yes
<b>Canada (DSL)</b>	Yes

#### Registration Listings

Registry	Status
Switzerland (ChemO)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
South Korea (KECL)	Yes

#### Registration Listings

Registry	Status
Philippines (PICCS)	Yes
Türkiye (KKDIK)	Yes
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-america@evonik.com  
[www.evonik.com/smarteffects](http://www.evonik.com/smarteffects)