

Product Information

VPS 7163

Tris[3-(trimethoxysilyl)propyl]isocyanurate

PRODUCT DESCRIPTION

VPS 7163 is a colorless isocyanurate silane with a high concentration of trimethoxysilyl groups. Therefore it is a strong crosslinker. It can be used as an adhesion promoter on different types of substrates like metals and plastics. The molecule with the heterocyclic planar six membered ring system imparts good wetting and thermal resistance thus leading to good adhesion even at high temperatures on metal substrates.

VPS 7163 can be used in adhesives and sealants, in coatings as well as in primer formulations.

Recommended applications in adhesives and sealants, coatings and primers:

- 1K, 2K - PU
- Acrylics
- Silicones
- Epoxy resins
- Silane modified polymer systems in combination with other aminosilanes
- Hotmelts

Typical Properties

Property	Unit	Value
Boiling Point, min. at 35 hPa	°C	237
Chemical Name	Tris [3-(trimethoxysilyl)propyl]isocyanurate	
Color	Colorless to light yellow	
Density (at 20 °C) DIN 51757	g/cm ³	1.181

The data represents typical values (no product specification)

Typical Properties

Property	Unit	Value
Flash Point, min. DIN EN ISO 2719	°C	95
Freezing Point DIN/ ISO 3016	°C	-20
Viscosity (at 20 °C) DIN 53015	mPa·s	~440-620

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

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- 1K, 2K - PU
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BENEFITS & ADVANTAGES

The thermal stability and the low volatility of VPS 7163 makes it especially useful for hot melt adhesives, e.g., EVA, PA, polyester, PU, and polyolefins.

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://www.evonik.com/en/company/businesslines/se.html> or upon request from your

local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

VPS 7163 is a high quality product with a high purity. VPS 7163 does not crystallize up to -20°C under normal conditions. However, mechanical stress like shear forces can cause crystallization at temperatures up to 20°C. If small crystals of VPS 7163 are formed at the thread or lid at low temperatures (shear forces), the crystals can drop into the drum and can cause crystallization of VPS 7163 up to a temperature of 20°C. The crystals can be melted at 25°C, but we recommend to heat VPS 7163 to 40°C to avoid recrystallization of the product.

PACKAGING

VPS 7163 is supplied in 25 kg, 200 kg and 1.000 kg containers.

SHELF LIFE

VPS 7163 has a shelf life of min. 12 months from delivery if stored in originally sealed containers.

Registration Listings

Registry	Status
South Korea (KECL)	Yes
Philippines (PICCS)	Yes
USA (TSCA)	Yes

Registration Listings

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

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.

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