

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** ALBIDUR® 1223

**Chemical name:** Silane-modified polyurethane prepolymer

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd  
Suites 33&37  
1 Ricketts Road  
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Australia

Telephone : +61 3 8581 8400

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E-mail : productsafety-sp@evonik.com

### Emergency telephone number:

24-Hour Health : +61 2 9037 2994

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Classification according to GHS

Not classified

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** Not applicable

**Other hazards:** Hydrolysis may result in formation of methanol depending on the specific conditions of use.

### 3. Composition/information on ingredients

**Chemical name:**  
 Silane-modified polyurethane prepolymer

#### Substances

#### Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Trimethoxyvinylsilane	No data available.	2768-02-7	<1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
<b>Ingestion:</b>	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	No data available.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	Up to now no symptoms are known.
<b>Hazards:</b>	No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Water.

**Special hazards arising from the substance or mixture:** In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No specific precautions.

**Special protective equipment for fire-fighters:** Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. High risk of slipping due to leakage/spillage of product

**Accidental release measures:** No data available.

**Methods and material for containment and cleaning up:** Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

**Environmental Precautions:** Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):** No data available.

**Safe handling advice:** Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

**Contact avoidance measures:** No data available.

### Storage

**Safe storage conditions:** Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in a dry place. Do not store together with oxidizing agents. Do not store with acids

or alkalis Protect from atmospheric moisture and water Keep at temperature not exceeding 40°C.

**Safe packaging materials:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Observe national threshold limit values.

#### Biological Limit Values

Observe national threshold limit values.

**Appropriate Engineering Controls** No data available.

### Individual protection measures, such as personal protective equipment

**General information:** No data available.

**Eye/face protection:** Safety goggles

#### Skin Protection

**Hand Protection:** Additional Information: gloves made of nitril (NBR)

**Other:** protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

**Hygiene measures:** When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	Viscous Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Fruity
<b>Odor Threshold:</b>	not measured
<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	not measured
<b>Flammability:</b>	not measured

#### Upper/lower limit on flammability or explosive limits

<b>Explosive limit - upper:</b>	not measured
<b>Explosive limit - lower:</b>	not measured
<b>Flash Point:</b>	> 212 °F/> 100 °C

<b>Autoignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	> 302 °F/> 150 °C
<b>pH:</b>	Not applicable
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	35,000 mPa.s (77 °F/25 °C)
<b>Kinematic viscosity:</b>	34314 mm <sup>2</sup> /s (77 °F/25 °C, calculated)
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Vapor pressure:</b>	not measured
<b>Relative density:</b>	not measured
<b>Density:</b>	Approximate 1.02 g/cm <sup>3</sup> (68 °F/20 °C)
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	not measured

#### Other information

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Evaporation Rate:</b>	not measured

### 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>Conditions to avoid:</b>	Heat. Moisture.
<b>Incompatible Materials:</b>	Alkalies. Oxidizing agents. Acids. Water.
<b>Hazardous Decomposition Products:</b>	Hydrolysis may result in formation of methanol depending on the specific conditions of use.

### 11. Toxicological information

#### Information on toxicological effects

#### Information on likely routes of exposure

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.

**Eye contact:** Information on effects are given below.

**Ingestion:** Information on effects are given below.

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane LD 50 (Rat): 7,120 mg/kg

**Dermal**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane LD 50 (Rabbit): > 2,000 mg/kg  
LD 50 (Rabbit): 3,158 mg/kg  
LD 50 (Rabbit): 3,760 mg/kg

**Inhalation**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane LC 50 (Rat, 4 h): 16.8 mg/l Vapour Not applicable, Dust and mist

**Repeated dose toxicity**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane NOAEC (Rat(Female, Male), Inhalation - vapor, 14 d): 58 mg/m<sup>3</sup>

**Skin Corrosion/Irritation**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane OECD 404 (Rabbit): Not irritating

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane OECD 405 (Rabbit): Not irritating

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane Buehler Test, OECD 406 (Guinea Pig): Skin sensitizer

**Carcinogenicity**

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane No evidence that cancer may be caused.

### Germ Cell Mutagenicity

No data available.

#### In vitro

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane Ames test (OECD 471): negative  
 gene mutation test (OECD 476): negative  
 Chromosomal aberration (OECD 473): positive

#### In vivo

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male):  
 negative

### Reproductive toxicity

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane Animal testing did not show any effects on fertility.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane no evidence for hazardous properties

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane no evidence for hazardous properties

### Aspiration Hazard

**Product:** Not classified  
**Components:**  
 Trimethoxyvinylsilane Not classified

### Information on health hazards

#### Other hazards

**Product:** No data available.

<b>12. Ecological information</b>
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#### Ecotoxicity:

##### Acute hazards to the aquatic environment:

#### Fish

**Product:** No data available.  
**Components:**  
 Trimethoxyvinylsilane LC 50 (Oncorhynchus mykiss, 96 h): 191 mg/l

#### Aquatic Invertebrates

**Product:** No data available.

**Components:**

Trimethoxyvinylsilane EC 50 (Daphnia magna, 48 h): 168.7 mg/l

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane EC 50 (Algae (Pseudokirchneriella subcapitata), 7 d): 210 mg/l (US-EPA-method)

**Toxicity to microorganisms**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane EC 10 (Pseudomonas putida, 5 h): 1,000 mg/l (DIN EN ISO 10712) EC 50 (activated sludge, 3 h): &gt; 100 mg/l (OECD 209)

**Toxicity to soil dwelling organisms**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane No data available.

**Toxicity to terrestrial organisms**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane No data available.

**Chronic hazards to the aquatic environment:**
**Fish**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Components:**

 Trimethoxyvinylsilane NOEC (Daphnia magna, 21 d): 28.1 mg/l (OECD 211)  
 Lowest Observed Effect Concentration (Daphnia magna, 21 d): 52.4 mg/l (OECD 211)  
 EC 50 (Daphnia magna, 21 d): 119 mg/l (OECD 211)

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane NOEC (Algae (Pseudokirchneriella subcapitata), 7 d): 25 mg/l (US-EPA-method)

**Toxicity to microorganisms**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane EC 10 (Pseudomonas putida, 5 h): 1,000 mg/l (DIN EN ISO 10712) EC 50 (activated sludge, 3 h): &gt; 100 mg/l (OECD 209)

**Toxicity to soil dwelling organisms**
**Product:** No data available.

**Components:**

Trimethoxyvinylsilane No data available.



#### Toxicity to terrestrial organisms

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane No data available.

#### Persistence and Degradability

##### Biodegradation

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane 51 % (28 d, OECD 301 F) The product is not biodegradable., aerobic

##### BOD/COD Ratio

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**  
Trimethoxyvinylsilane not bioaccumulative

##### Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

**Components:**  
Trimethoxyvinylsilane Log Kow: 1.1 20 °C (QSAR)  
Log Kow: -2.0 20 °C (QSAR) hydrolysis product

#### Mobility in soil:

**Product** No data available.

**Components:**  
Trimethoxyvinylsilane Adsorption on the floor: low.

**Product** No data available.

**Components:**  
Trimethoxyvinylsilane No data available.

#### Other adverse effects:

##### Other hazards

**Product:** Do not allow to enter soil, waterways or waste water canal.

### 13. Disposal considerations

**Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant

**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

## 14. Transport information

### **ADG**

Not regulated as a dangerous good

### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

## 15. Regulatory information

### **International regulations**

#### **Montreal protocol**

Not applicable

#### **Stockholm convention**

Not applicable

#### **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

## 16. Other information, including date of preparation or last revision

**Issue Date:** 19.08.2021

**Version #:** 1.1

**Further Information:** No data available.

**Revision Information:** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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