

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
This SDS is for generic information purposes and does not reflect required country specific
information for OEL

**BOSTIK H560 SEAL'N'FLEX ALL WEATHER BLACK** 

Supercedes Date: 01-Feb-2021

Revision date 28-Jun-2021 Revision Number 2

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name BOSTIK H560 SEAL'N'FLEX ALL WEATHER BLACK

Pure substance/mixture Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Sealant.
Uses advised against None known.

### 1.3. Details of the supplier of the safety data sheet

## **Company Name**

Bostik SA 420 rue d'Estienne d'Orves 92700 Colombes FRANCE

Tel: +33 (0)1 49 00 90 00

E-mail address SDS.box-EU@bostik.com

## 1.4. Emergency telephone number

**Emergency Telephone** 

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

# 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### Signal word

None

### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

# **EU Specific Hazard Statements**

EUH208 - Contains Trimethoxyvinylsilane & N-(3-(trimethoxysilyl)propyl)ethylenediamine & 3-(Triethoxysilyl) propylamine & Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction EUH210 - Safety data sheet available on request

### 2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing.

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### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	309-629-8	100545-48-0	1 - <5	Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	Skin Sens. 1 :: C>=25%	01-2119979085- 27-XXXX
Trimethoxyvinylsilane	220-449-8	2768-02-7	1 - <2.5	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)		01-2119513215- 52-XXXX
3-(Triethoxysilyl) propylamine	213-048-4	919-30-2	0.1- <1	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302)		01-2119480479- 24-XXXX
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine	217-164-6	1760-24-3	0.1- <1	Eye Dam. 1 (H318) Skin Sens. 1B (H317) STOT SE 3 (H335)		01-2119970215- 39-XXXX

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

**General advice** 

Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.

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**Inhalation** Remove to fresh air. If symptoms persist, call a doctor.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

**Ingestion** Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by

mouth to an unconscious person. Small amounts of toxic methanol are released by

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hydrolysis.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by

hydrolysis and released upon curing.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

**Special protective equipment and** Wear self contained breathing apparatus for fire fighting if necessary.

# SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation. Do not get

in eyes, on skin, or on clothing.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment**Do not scatter spilled material with high pressure water streams.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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6.4. Reference to other sections

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**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

## Specific use(s)

Sealant.

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits** Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon

curing Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing This product contains carbon black in a non-respirable form. Inhalation of

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carbon black is unlikely to occur from exposure to this product

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union	
Methyl alcohol	TWA: 200 ppm	
67-56-1	TWA: 260 mg/m <sup>3</sup>	
	*	

**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)				
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Local health effects	Inhalation	3.35 mg/m <sup>3</sup>		

Trimethoxyvinylsilane (2768-02-7)			
Туре	1	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Inhalation	27,6 mg/m <sup>3</sup>	
worker	Dermal	3,9 mg/kg bw/d	

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Systemic health effects			
Long term			
3-(Triethoxysilyl) propylamin	ne (919-30-2)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Inhalation	59 mg/m³	
Long term		3	
Systemic health effects			
worker	Inhalation	59 mg/m <sup>3</sup>	
Short term		, and the second	
Systemic health effects			
worker	Dermal	8.3 mg/kg bw/d	
Long term			
Systemic health effects			
worker	Dermal	8.3 mg/kg bw/d	
Short term			
Systemic health effects			
N-(3-(trimethoxysilyl)propyl)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term	Inhalation	35.5 mg/m³	
Systemic health effects			
worker			
Long term	Dermal	5 mg/kg bw/d	
Systemic health effects			
Systemic health effects worker			
worker Short term	Dermal	5 mg/kg bw/d	
worker	Dermal	5 mg/kg bw/d	
worker Short term	Dermal	5 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	5 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	5 mg/kg bw/d	
worker Short term Systemic health effects		5 mg/kg bw/d	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI	EL)  oxy-, reaction products with	ethylenediamine (100545-48-0)	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI	EL)	ethylenediamine (100545-48-0)  Derived No Effect Level	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro	EL)  oxy-, reaction products with	ethylenediamine (100545-48-0)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro	EL)  oxy-, reaction products with	ethylenediamine (100545-48-0)  Derived No Effect Level	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type	Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type Consumer	Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type Consumer	EL)  oxy-, reaction products with  Exposure route  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term	EL)  oxy-, reaction products with  Exposure route  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)	Safety factor  Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type	EL)  Exposure route  Inhalation  -02-7)  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type Consumer	EL)  oxy-, reaction products with  Exposure route  Inhalation  -02-7)	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects	EL)  Exposure route  Inhalation  -02-7)  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term Consumer	EL)  Exposure route  Inhalation  -02-7)  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Dermal	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term Consumer Consumer Consumer Consumer	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term Consumer Systemic health effects Long term Consumer Systemic health effects Long term Consumer Systemic health effects	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Dermal	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term Consumer Consumer Consumer Consumer	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Dermal	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Dermal  Oral	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Systemic health effects Long term	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term	EL)  Exposure route  Inhalation  Exposure route  Inhalation  Dermal  Oral	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level	
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Type	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Consumer Consumer Consumer	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Type  Consumer Consumer Long term	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Type  Consumer Long term Systemic health effects	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral  Exposure route  Inhalation	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level (DNEL)  17 mg/m³	Safety factor
worker Short term Systemic health effects worker  Derived No Effect Level (DNI Octadecanoic acid, 12-hydro Type  Consumer Long term  Trimethoxyvinylsilane (2768- Type  Consumer Systemic health effects Long term  Type  Consumer Consumer Long term	EL)  Exposure route  Inhalation  -02-7)  Exposure route  Inhalation  Oral  Oral  Exposure route	ethylenediamine (100545-48-0)  Derived No Effect Level (DNEL)  0.83 mg/m³  Derived No Effect Level (DNEL)  18,9 mg/m³  7,8 mg/kg bw/d  0,3 mg/kg bw/d  Derived No Effect Level (DNEL)	Safety factor

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Systemic health effects			-
Consumer	Dermal	5 mg/kg bw/d	
Long term			
Systemic health effects			
Consumer	Dermal	5 mg/kg bw/d	
Short term			
Systemic health effects			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Long term Systemic health effects Consumer	Oral	2.5 mg/kg bw/d		
Long term Systemic health effects Consumer	Inhalation	8.7 mg/m <sup>3</sup>		
Long term Systemic health effects Consumer	Dermal	mg/kg bw/d		

**Predicted No Effect Concentration** No information available. **(PNEC)** 

Predicted No Effect Concentration (PNEC)			
Trimethoxyvinylsilane (2768-02-7)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.34 mg/l		
Marine water	0.034 mg/l		
Microorganisms in sewage treatment	110 mg/l		

3-(Triethoxysilyl) propylamine (919-30-2)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.33 mg/l		
Marine water	0.033 mg/l		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.062 mg/l		
Marine water	0.0062 mg/l		
Freshwater - intermittent	0.62 mg/l		
Freshwater sediment	0.05 mg/kg		
Marine sediment	0.005 mg/kg		
Soil	0.0075 mg/kg		
Sewage treatment plant	25 mg/l		

# 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

**Hand protection** Wear suitable gloves. Recommended Use:. Neoprene™. Nitrile rubber. Butyl rubber.

Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

None under normal use conditions.

In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation,

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especially in confined areas.

Organic gases and vapours filter conforming to EN 14387. White. Brown. Recommended filter type:

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Solid Physical state Appearance Paste Colour Black

Slight Characteristic Odour **Odour threshold** No information available

Remarks • Method **Property** 

pН No data available Not applicable

pH (as aqueous solution) No data available

Melting point / freezing point No data available Not applicable Not applicable Initial boiling point and boiling No data available

range Flash point

approx . °C Not applicable

No data available **Evaporation rate** Flammability Not applicable for liquids .

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

hPa @ 50 °C < 1100 Vapour pressure

No data available Relative vapour density

Relative density No data available None known

Water solubility Product cures with moisture

Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available

7500 - 12500 Pa.s Spindle ZU4 @ 1 rpm @ 23 °C **Dynamic viscosity** 

**Explosive properties** No data available **Oxidising properties** No data available

9.2. Other information

Solid content (%) No information available

**VOC Content (%)** 

1.42 - 1.50 g/ml Density

# SECTION 10: Stability and reactivity

10.1. Reactivity

Product cures with moisture. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

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Sensitivity to mechanical

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impact

None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture. Exposure to air or moisture over

prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and

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sources of ignition.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5)

are formed by hydrolysis and released upon curing.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

# Information on likely routes of exposure

Product Information

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** Based on available data, the classification criteria are not met. May cause sensitisation

in susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 139.70 mg/l ATEmix (inhalation-vapour) 582.50 mg/l

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octadecanoic acid,	LD50 >2000 mg/kg (Rattus)		LC50 =5.05 mg/kg (Rattus)
12-hydroxy-, reaction products			
with ethylenediamine			
100545-48-0			
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3360 µL/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)

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2768-02-7	(Rattus) OECD 401	cuniculus)	OECD TG 403
3-(Triethoxysilyl) propylamine	LD50 = 1490 mg/kg (Rat,	LD50 = 4076 mg/kg	LC50 >144 mg/L (6h) Rat
919-30-2	female) EPA OTS 798.1175	(Oryctolagus cuniculus) EPA	(Vapour)
		OTS 798.1100	
N-(3-(trimethoxysilyl)propyl)eth	LD50 = 2295 mg/kg (Rattus)	LD50 > 2000 mg/kg	
ylenediamine	EPA OPPTS 870.1100	(Oryctolagus cuniculus)	
1760-24-3		EPA OPPTS 870.1200	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No

classification is proposed, based on conclusive negative data. May cause sensitisation in

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susceptible persons.

Product Information				
Method	Species	Exposure route	Results	
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitisation responses	
Sensitisation			were observed	

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** 

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Octadecanoic acid,	EL50 (72h)	LL50 (96h)	-	EL50 (48h)		
12-hydroxy-, reaction	>100 mg/L	>10mg/L		>10mg/L		
products with	Algae	(Onchohynchus		Daphnia		
ethylenediamine	(Pseudokirchner	mykiss)		(Daphnia		
100545-48-0	iella			magna)		
	subcapitata)					
Trimethoxyvinylsilane	EC 50 (72h) >	LC50 (96h) =	-	EC50(48hr)		
2768-02-7	957 mg/l	191 mg/l		168.7mg/l		
	(Desmodesmus	(Oncorhynchus		(Daphnia		
	subspicatus)	mykiss)		magna)		
	EU Method C.3					
3-(Triethoxysilyl)	EC50 (72h)	LC50 (96h)	-	EC50 (48h)		
propylamine	>1000 mg/L	>934 mg/L		=331 mg/L		
919-30-2	Green algae	(Brachydanio		Daphnia magna		
	(desmodesmus	rerio) (OECD		(OECD TG 202)		
	subspicatus)	TG 203)				
	(OECD TG 201)					
N-(3-(trimethoxysilyI)pr	-	LC50 (96H)	-	EC50 (48h)		
opyl)ethylenediamine		=597 mg/L		=81mg/L		
1760-24-3		(Danio		Daphnia magna		
		rerio)Semi-static		Static		

## 12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information				
Trimethoxyvinylsilane (2768-02-7)				
Method	Exposure time	Value	Results	
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily	
Biodegradability: Manometric			biodegradable	
Respirometry Test (TG 301 F)				

# 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## **Component Information**

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Trimethoxyvinylsilane	1.1	-
2768-02-7		
3-(Triethoxysilyl) propylamine	1.7	3.4
919-30-2		
N-(3-(trimethoxysilyl)propyl)ethylenediami	-0.3	-
ne		
1760-24-3		

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment	
Octadecanoic acid, 12-hydroxy-, reaction products with	The substance is not PBT / vPvB	
ethylenediamine		

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100545-48-0	
Trimethoxyvinylsilane 2768-02-7	The substance is not PBT / vPvB
3-(Triethoxysilyl) propylamine 919-30-2	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	The substance is not PBT / vPvB

### 12.6. Other adverse effects

Other adverse effects No information available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste from residues/unused

products

Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international

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regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue** 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Provisions None

# IMDG

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated

14.5 Marine pollutant NP
14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Provisions None

# Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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# **European Union**

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

## Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No.	Restricted substance per REACH Annex XVII
Dioctyltin oxide	870-08-6	20

### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### **Persistent Organic Pollutants**

Not applicable

## National regulations

France

### Germany

### Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TRGS - 510 Storage Class Storage Class 10: Combustible liquids

**Netherlands** 

### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Denmark

Registration number(s) (P-no.) No information available

Registration number(s) (PRN-no.) No information available

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### 15.2. Chemical safety assessment

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Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

### **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

## Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value
\* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

### Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

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**Indication of changes** 

**Revision note** SDS sections updated, 2, 3, 8, 11.

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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