

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 FIREBOND SILMAX PRO GREY Supercedes Date: 12-Mar-2021 Revision date 28-Nov-2022 Revision Number 4

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

1.1. Product identifier					
Product Name	BOSTIK FIREBOND SILMAX PRO GREY				
Other means of identification					
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 sa	afety data sheet				
<u>Company Name</u> 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	112				
SECTION 2: Hazards identifi	cation				

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]

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-aminopropyltriethoxysilane & 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

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64-17-5) are formed by hydrolysis and released upon curing. Harmful to aquatic life.

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 (EU Index No).	CAS No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	REACH registration number
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 1 - <2.5 %	309-629-8	100545-48-0	Skin Sens. 1B (H317)	Skin Sens. 1 :: C>=25%	-	-	01-2119979085- 27-XXXX
Trimethoxyvinylsilane 0.1- <1 %	(014-049-00- 0) 220-449-8	2768-02-7	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
Titanium dioxide 0.1- <1 %	(022-006-00- 2) 236-675-5	13463-67-7	[C]	-	-	-	01-2119489379- 17-XXXX
Bis(2,2,6,6-tetramethyl-4 -piperidyl) sebacate 0.1 - <0.5 %	258-207-9	52829-07-9	Eye Dam. 1 (H318) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	-	-	01-2119537297- 32-XXXX
3-aminopropyltriethoxysil ane 0.1 - <0.3 %	(612-108-00- 0) 213-048-4	919-30-2	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302)	-	-	-	01-2119480479- 24-XXXX
Dioctyltin oxide 0.1 - <0.3 %	212-791-1	870-08-6	STOT SE 2 (H371)	-	-	-	01-2119971268- 27-xxxx
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine 0.1 - <0.3 %	217-164-6	1760-24-3	Eye Dam. 1 (H318) Skin Sens. 1B (H317) STOT SE 3 (H335)	-	-	-	01-2119970215- 39-XXXX

Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	REACH registration number
Ethanol 64-17-5	(603-002-00 -5) 200-578-6	1 - <2.5	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	01-211945761 0-43-XXXX
Methyl alcohol 67-56-1	(603-001-00 -X) 200-659-6	1 - <2.5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-211943330 7-44-XXXX

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

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Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	309-629-8	100545-48-0	-	-	-	-	-
Trimethoxyvinylsilane	(014-049-00-0) 220-449-8	2768-02-7	-	-	-	11	-
Titanium dioxide	(022-006-00-2) 236-675-5	13463-67-7	-	-	-	-	-
Bis(2,2,6,6-tetramethyl- 4-piperidyl) sebacate	258-207-9	52829-07-9	-	-	-	-	-
3-aminopropyltriethoxy silane	(612-108-00-0) 213-048-4	919-30-2	1490	-	-	-	-
Dioctyltin oxide	212-791-1	870-08-6	-	-	-	-	-
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine	217-164-6	1760-24-3	-	-	1.5	-	-

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

Notes

See section 16 for more information

Chemical name	Notes
Titanium dioxide - 13463-67-7	V,W,10

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.
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	In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.
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 hydrolysis.

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4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms	None known.		
4.3. Indication of any immediate m	edical 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 mea	asures		
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 t	he substance or mixture		
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours.		
Hazardous combustion products	Carbon oxides. Carbon monoxide. Carbon dioxide (CO2).		
5.3. Advice for firefighters			
Special protective equipment and precautions for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.		
SECTION 6: Accidental relea	ase measures		
6.1. Personal precautions, protecti	ive 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.		
For emergency responders	Use personal protection recommended in Section 8.		
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 cont	ainment 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.		
6.4. Reference to other sections			
Reference to other sections	See section 8 for more information. See section 13 for more information.		
SECTION 7: Handling and st	torage		

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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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, in	cluding any incompatibilities		
Storage Conditions	Protect from moisture. Keep away from food, drink and animal feedingstuffs.		
Recommended storage temperature	Keep at temperatures between 10 and 35 °C.		
7.3. Specific end use(s)			
Specific use(s) Sealant.			
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 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 This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide 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 ³
	*

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/m³		

Trimethoxyvinylsilane (2768-02-7)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Systemic health effects Long term	Inhalation	27,6 mg/m³		
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d		

Titanium dioxide (13463-67-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor

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worker	Inhalation	10 mg/m³	
Long term			
Local health effects			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)				
Туре		Derived No Effect Level (DNEL)	Safety factor	
worker Short term Long term Systemic health effects	Inhalation	2.82 mg/m³		
worker Long term Systemic health effects	Dermal	1.6 mg/kg		

3-aminopropyltriethoxysilane (919-30-2)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	59 mg/m³		
worker Short term Systemic health effects	Inhalation	59 mg/m³		
worker Long term Systemic health effects	Dermal	8.3 mg/kg bw/d		
worker Short term Systemic health effects	Dermal	8.3 mg/kg bw/d		

Dioctyltin oxide (870-08-6)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	0.05 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	0.004 mg/m³	

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Inhalation	35.5 mg/m³	
Long term Systemic health effects worker	Dermal	5 mg/kg bw/d	
Short term Systemic health effects worker	Dermal	5 mg/kg bw/d	

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	
Consumer	Inhalation	0.83 mg/m³		

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Long term

Trimethoxyvinylsilane (2768-02-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m³	
Consumer Systemic health effects Long term	Dermal	7,8 mg/kg bw/d	
Consumer Systemic health effects Long term	Oral	0,3 mg/kg bw/d	

Titanium dioxide (13463-67-7)				
Туре	Exposure route	Derived No Effect Level	Safety factor	
		(DNEL)	-	
Consumer	Oral	700 mg/kg bw/d		
Long term				
Systemic health effects				

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Dermal	0.8 mg/kg		
Consumer Long term Systemic health effects	Oral	0.4 mg/kg		

3-aminopropyltriethoxysilane (919-30-2)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Inhalation	17 mg/m³		
Consumer Short term Systemic health effects	Inhalation	17.4 mg/m³		
Consumer Long term Systemic health effects	Dermal	5 mg/kg bw/d		
Consumer Short term Systemic health effects	Dermal	5 mg/kg bw/d		

Dioctyltin oxide (870-08-6)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Oral	0.0005 mg/kg bw/d		
Consumer Long term Systemic health effects	Dermal	0.025 mg/kg bw/d		
Consumer Long term Systemic health effects	Inhalation	0.0009 mg/m³		

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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/m³		
Long term Systemic health effects Consumer	Dermal	mg/kg bw/d		

Predicted No Effect Concentration (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
Titorium diavida (42402.07.7)	
Titanium dioxide (13463-67-7) Environmental compartment	Predicted No Effect Concentration (PNEC)
Marine water Freshwater sediment	0.0184 mg/l
	1000 mg/kg
Freshwater	0.184 mg/l
Marine sediment	100 mg/kg
Soil	100 mg/kg
Microorganisms in sewage treatment	100 mg/l
Freshwater - intermittent	0.193 mg/l
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (5282	29-07-9)
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.018 mg/l
Marine water	0.0018 mg/l
Freshwater sediment	29 mg/kg
Marine sediment	2.9 mg/kg
Soil	5.9 mg/kg
3-aminopropyltriethoxysilane (919-30-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.33 mg/l
	0.033 mg/l
Marine water	0.033 mg/i
Dioctyltin oxide (870-08-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater sediment	0.02798 mg/kg dry weight
Marine sediment	0.002798 mg/kg dry weight
Microorganisms in sewage treatment	100 mg/l
N (2) (frim oth experitely) are sub-th-th-th-th-th-th-th-th-th-th-th-th-th-	
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760	
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

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Courses treatment plant	
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	None under normal use conditions.
Respiratory protection	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, especially in confined areas.
Recommended filter type:	Organic gases and vapours filter conforming to EN 14387. White. Brown.
Environmental exposure controls	Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

PropertyValuesRemarks • MethodMelting point / freezing pointNo data availableNot applicableInitial boiling point and boilingNo data availableNot applicablePlanmabilityNot applicable for liquids .None knownFlammability Limit in AirNo data availableNone knownUpper flammability or explosiveNo data availableImitsLower flammability or explosiveNo data availableNone knownImitsapprox . °CNot applicableAutoignition temperatureNo data availableNone knownpHNo data availableNone knownph (as aqueous solution)No data availableNone knownpynamic viscosity7500 12500 Pa.sSpindle ZU4 @ 1 rpm @ 23 °CWater solubilityNo data availableNone knownPartition coefficientNo data availableNone knownPartition coefficientNo data availableNone knownPaluk DensityNo data availableNone knownParticle characteristicsNo data availableNone knownParticle Size DistributionNo formation availableNone knownParticle Size DistributionNo information availableNone known	9.1. Information on basic physical a Physical state Appearance Colour Odour Odour Odour threshold	and chemical properties Solid Paste Grey Slight. Characteristic. No information available	
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Partition coefficientNo data availableNone knownVapour pressure< 1100hPa @ 50 °CRelative densityNo data availableNone knownBulk DensityNo data availableNone knownLiquid Density1.42 - 1.50 g/mlRelative vapour densityNo data availableParticle characteristicsNo information available			
Vapour pressure< 1100			
Relative densityNo data availableNone knownBulk DensityNo data availableNone knownLiquid Density1.42 - 1.50 g/mlNone knownRelative vapour densityNo data availableNone knownParticle characteristicsNo information availableNone known			
Bulk DensityNo data availableLiquid Density1.42 - 1.50 g/mlRelative vapour densityNo data availableParticle characteristicsParticle SizeNo information available	• •		
Liquid Density1.42-1.50 g/mlRelative vapour densityNo data availableNone knownParticle characteristicsNo information available	,		None known
Relative vapour densityNo data availableNone knownParticle characteristicsNo information available			
Particle characteristics Particle Size No information available		•	Negelineur
Particle Size No information available		no data avallable	
		No information available	

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9.2. Other information
Solid content (%)
VOC content

No information available No data available

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stability

Reactivity

Stable under normal conditions.

Explosion data

Sensitivity to mechanical None. impact 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 sources of ignition.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products 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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-dust/mist) 279.40 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			
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)
	(Rattus) OECD 401	cuniculus)	OECD TG 403
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 5000 mg/Kg	= 5.09 mg/L (Rattus)4 h
Bis(2,2,6,6-tetramethyl-4-piperi dyl) sebacate	LD50 (Rattus)> 2000 mg/kg OECD 423	LD50 (Rattus) > 3 170 mg/kg OECD 402	=500 mg/m ³ (Rattus) 4 h
3-aminopropyltriethoxysilane	LD50 = 1490 mg/kg (Rattus, female) EPA OTS 798.1175 LD50 = 2690 mg/kg (Rattus, male) EPA OTS 798.1175	LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100	LC50 >144 mg/L (6h) Rattus (Vapour)
Dioctyltin oxide	=2500 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	-
N-(3-(trimethoxysilyl)propyl)eth ylenediamine	LD50 = 2295 mg/kg (Rattus) EPA OPPTS 870.1100	LD50 > 2000 mg/kg (Oryctolagus cuniculus) EPA OPPTS 870.1200	1.49 - 2.44 mg/L (Rat)4 h

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.

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 431: In	EPISKIN™	in vitro	0.02 g	4 hours	Non-irritant
Vitro Skin Corrosion:					
Human Skin Model Test					

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant
Acute Dermal					
Irritation/Corrosion					

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant

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Acute Dermal			
Irritation/Corrosion			

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

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	еуе	0.1 mL	72 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	еуе		24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	Eye			Non-irritant
Acute Eye					
Irritation/Corrosion					

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Eye Damage
Acute Eye					
Irritation/Corrosion					

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 susceptible persons.

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

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	Sensitizing > 25 %
Sensitisation	-		-

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	sensitising
Sensitisation, Buehler test			

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	Not a skin sensitiser
Sensitisation			
OECD Test No. 429: Skin	Mouse	Dermal	Not a skin sensitiser
Sensitisation: Local Lymph Node			
Assay			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

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

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

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic
Mutation Test		-

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Carcinogenicity

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

Reproductive toxicity

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

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Results		
OECD Test No. 421:	Rat	Not Classifiable		
Reproduction/Developmental Toxicity Screening				
Test				

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	Not Classifiable
Toxicity Study with the		
Reproduction/Developmental Toxicity Screening		
Test		

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Results			
OECD Test No. 414: Pre-natal Development	Rat, Rabbit	reproductive toxicant			
Toxicity Study					

STOT - single exposure

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

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) Dioctyltin oxide (870-08-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Oral	5 mg/kg	28 days	0.3 - 0.5 mg/kg
Combined Repeated Dose					bw/d May cause
Toxicity Study with the					damage to the
Reproduction/Developme					following organs:
ntal Toxicity Screening					Immune system
Test					-

STOT - repeated exposure

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

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL
Sub-chronic Inhalation					
Toxicity: 90-day Study					

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Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat Rabbit			28 days	0.3 -0.5 mg/kg bw/
Aspiration hazard	Base	ed on available data, th	e classification crite	eria are not met.	
11.2. Information on o	ther hazards				
		5			
11.2.Information on o11.2.1.Endocrine disrupting p	rupting properties	s			

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0	EL50 (72h) >100 mg/L Algae (Pseudokirchner iella subcapitata)	>10mg/L (Onchohynchus	-	EL50 (48h) >10mg/L Daphnia (Daphnia magna)		
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-		
Bis(2,2,6,6-tetramethyl- 4-piperidyl) sebacate 52829-07-9	0.705 mg/l	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	-	LC50 48Hr 8.58 mg/l (Daphnia magna)		
3-aminopropyltriethoxy silane 919-30-2	>1000 mg/Ĺ Green algae	LC50 (96h) >934 mg/L (Brachydanio rerio) (OECD TG 203)		EC50 (48h) =331 mg/L Daphnia magna (OECD TG 202)		
Dioctyltin oxide 870-08-6	EC50 (3hr) >1.000 mg/l (bacteria) (Activated Sludge, Respiration Inhibition Test)	LC50 (96hr) >0,09 mg/l (Brachydanio rerio (zebra)) (Acute Toxicity Test)	-	EC50 (48Hr) >0,21 mg/l (Daphnia magna (Dappnia magna)) (Daphnia sp. Acute Immobilisation Test)		
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine 1760-24-3	-	LC50 (96H) =597 mg/L (Danio	-	EC50 (48h) =81mg/L Daphnia magna		

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rerio)Semi-static	5	Static	

12.2. Persistence and degradability

Persistence and degradability No information available.

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)			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Exposure time	Value	Results
OECD Test No. 303: Simulation Test	28 days	Total organic carbon (TOC)	24 % Moderate
- Aerobic Sewage Treatment A:			
Activated Sludge Units; B: Biofilms			

Dioctyltin oxide (870-08-6) Method Exposure time Value Results OECD Test No. 301F: Ready 755 hours biodegradation Not readily biodegradable 2 % Biodegradability: Manometric Respirometry Test (TG 301 F) 0 0

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Octadecanoic acid, 12-hydroxy-, reaction products with	5.86
ethylenediamine	
Trimethoxyvinylsilane	1.1
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35
3-aminopropyltriethoxysilane	1.7
Dioctyltin oxide	6
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

Chemical name	PBT and vPvB assessment
Octadecanoic acid, 12-hydroxy-, reaction products with	The substance is not PBT / vPvB
ethylenediamine	
Trimethoxyvinylsilane	The substance is not PBT / vPvB
Titanium dioxide	The substance is not PBT / vPvB PBT assessment does
	not apply
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	The substance is not PBT / vPvB
3-aminopropyltriethoxysilane	The substance is not PBT / vPvB
Dioctyltin oxide	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of contents/container in accordance with local, regional, national, and international 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 number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None
IMDG	
14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	NP
14.6 Special Provisions	None
14.7 Maritime transport in bulk	Not applicable
according to IMO instruments	
-	
Air transport (ICAO-TI / IATA-DGR)	

Air transport (ICAO-TI / IATA-DGR)

14.1	UN number or ID number	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Provisions	None

Section 15: REGULATORY INFORMATION

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

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

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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)

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Dioctyltin oxide - 870-08-6	l.1

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)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands) Not Listed

DenmarkRegistration number(s) (P-no.)No information availableNorwayRegistration number(s) (PRN-no.)No information available

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15.2. Chemical safety assessment

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

H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note V: If the substance is to be placed on the market as fibres (with diameter < $3 \mu m$, length > $5 \mu m$ and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

Notes relating to the classification and labelling of mixtures

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 µm

SVHC: Substances of Very High Concern for Authorisation:

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

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	*	Skin designation

Classification procedure Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used Acute oral toxicity Calculation method Acute dermal toxicity Calculation method Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - Vapour Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Calculation method Serious eye damage/eye irritation

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Respiratory sensitisation	Calculation method	
Skin sensitisation	On basis of test data	
mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC) European Chemicals Agency (ECHA) (ECHA_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) NIOSH (National Institute for Occupational Safety and Health) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set Prepared By Revision date 28-Nov-2022

Revision note	SDS sections updated 3 11 12 16
Training Advice	No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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