

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 PERFECT SEAL 2-1 WHITE Supercedes Date: 30-Oct-2023

Revision date 27-Feb-2024 Revision Number 1.02

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

1.1. Product identifier

Product Name BOSTIK PERFECT SEAL 2-1 WHITE

Form This substance/ mixture contains nanoforms

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Adhesives and/or sealants

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik AB Strandbadsvaegen 22 PO Box 903 25109 Helsingborg, Sweden Tel: +46 42 19 50 00

Tel: +46 42 19 50 00 Fax: +46 42 19 50 20

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

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

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 & N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine & Dioctyltinbis(acetylacetonate). May produce an allergic reaction EUH210 - Safety data sheet available on request

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Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

2.3. Other hazards

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

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).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

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
Trimethoxyvinylsilane 1 - <2.5 %	220-449-8 (014-049-00- 0)	2768-02-7	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
Titanium dioxide 0.1- <1 %	236-675-5 (022-006-00- 2)	13463-67-7	[C]	-	-	-	01-2119489379- 17-XXXX
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine 0.1- <1 %	217-164-6	1760-24-3	Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H332) STOT SE 3 (H335)	-	-	-	01-2119970215- 39-XXXX
Dioctyltinbis(acetylaceto nate) 0.1 - <0.5 %	483-270-6	54068-28-9	STOT SE 2 (H371) Skin Sens. 1 (H317)	Skin Sens. 1 :: C>=5%	-	-	01-0000020199- 67-XXXX
N-[3-(Dimethoxymethylsil yl)propyl]-ethylenediamin e 0.1 - <0.5 %		3069-29-2	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	-	-	-	01-2119963926- 21-xxxx

Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Methyl alcohol 67-56-1	200-659-6 (603-001-00-X)	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-2119433307- 44-XXXX

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0=0=0=.		
STOT SE 1		
(H370) Flam. Liq. 2		
Flam. Liq. 2		
(H225)		

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

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

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

[I] - Restricted substance per REACH Annex XVII

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
Trimethoxyvinylsilane	220-449-8 (014-049-00-0)	2768-02-7	-	-	-	11	-
Titanium dioxide	236-675-5 (022-006-00-2)	13463-67-7	-	-	-	-	-
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine	217-164-6	1760-24-3	-	-	1.5	-	-
Dioctyltinbis(acetylacet onate)	483-270-6	54068-28-9	-	-	-	-	-
N-[3-(Dimethoxymethyl silyl)propyl]-ethylenedia mine		3069-29-2	500	-	-	-	-

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 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. Consult an

ophthalmologist.

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

doctor.

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Ingestion Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a doctor or poison control centre immediately. Small amounts

of toxic methanol are released by hydrolysis.

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

Symptoms None known.

Effects of Exposure No information available.

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

Note to doctors Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Treat symptomatically.

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.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

Special protective equipment ar 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 Ensure adequate ventilation. Use personal protective equipment as required. 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

place into a container for later disposal.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skin,

eyes or clothing.

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

work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep containers tightly closed in a cool, well-ventilated place.

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)

Adhesives and/or sealants.

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

Titanium dioxide (13463-67-7)			
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
worker	Inhalation	10 mg/m³	

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Consumer

Long term

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Long term Local health effects			
N (0 (('))) N (()) N (())		X	
N-(3-(trimethoxysilyl)propyl) Type	Exposure route	Derived No Effect Level	Safety factor
Туре	Exposure route	(DNEL)	Salety factor
worker Systemic health effects Long term	Inhalation	35.5 mg/m³	
worker Systemic health effects Long term	Dermal	5 mg/kg bw/d	
Die styltinkie/aastylaastenst	a) /E40C0 20 0)		
Dioctyltinbis(acetylacetonat Type	Exposure route	Derived No Effect Level	Safety factor
турс	Exposure route	(DNEL)	Calety lactor
Long term Systemic health effects worker	Dermal	0.07 mg/kg bw/d	
Long term Systemic health effects worker	Inhalation	84 mg/m³	
Short term Systemic health effects worker	Inhalation	84 mg/m³	
Long term Short term Local health effects worker	Inhalation	0.091 mg/m³	
N-[3-(Dimethoxymethylsilyl)		Derived No Effect Level	Cafaty factor
Туре	Exposure route	(DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	12 mg/m³	
worker Long term Systemic health effects	Dermal	1.7 mg/kg bw/d	
	•		
Derived No Effect Level (DN	EL)		
Trimethoxyvinylsilane (2768			
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	7)		
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumar	Oral	700 mg/kg bw/d	

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Oral

700 mg/kg bw/d

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Systemic health effects

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)						
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
Consumer Systemic health effects Long term	Oral	2.5 mg/kg bw/d				
Consumer Systemic health effects Long term	Inhalation	8.7 mg/m³				
Consumer Systemic health effects Long term	Dermal	2.5 mg/kg bw/d				

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)						
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
Consumer Long term Systemic health effects	Inhalation	2.9 mg/m³				
Consumer Long term Systemic health effects	Dermal	0.83 mg/kg bw/d				
Consumer Long term Systemic health effects	Oral	0.83 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			

Titanium dioxide (13463-67-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Marine water	0.0184 mg/l
Freshwater sediment	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

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			
Sewage treatment plant	25 mg/l			

Dioctyltinbis(acetylacetonate) (54068-28-9)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	26 μg/l			
Marine water	2.6 μg/l			
Freshwater - intermittent	260 μg/l			
Sewage treatment plant	1 mg/l			

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Freshwater sediment	0.155 mg/kg dry weight
Marine sediment	0.0155 mg/kg dry weight
Soil	0.0158 mg/kg dry weight

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.062 mg/l			
Marine water	0.006 mg/l			
Sewage treatment plant	25 mg/l			
Freshwater sediment	0.24 mg/kg dry weight			
Marine sediment	0.024 mg/kg dry weight			
Soil	0.01 mg/kg dry weight			

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. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than

480 min. Gloves must conform to standard EN 374

Skin and body protection

Wear suitable protective clothing.

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

9.1. Information on basic physical and chemical properties

Physical stateSolidAppearancePasteColourWhiteOdourCharacteristic.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point
Initial boiling point and boiling
No data available
No data available

range

Flammability No data available

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 60 °C CC (closed cup)
Autoignition temperature No data available

Autoignition temperature
Decomposition temperature

Decomposition temperature None known

H Not applicable. Reacts with water.

PH (as aqueous solution)

No data available

pH (as aqueous solution)
No data available
Kinematic viscosity
> 21 mm²/s

Kinematic viscosity > 21 mm²/s @ 40°C **Dynamic viscosity** No data available

Water solubility Reacts with water. Product cures

water solubility Reacts with water. Product cures with moisture

Solubility(ies) No data available
Partition coefficient No data available

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No data available Vapour pressure Relative density No data available **Bulk Density** No data available Density 1.58 g/cm³ No data available Relative vapour density

Particle characteristics

Particle Size No information available **Particle Size Distribution** No information available

9.2. Other information

No information available Solid content (%)

No data available **VOC** content

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

Minimum Ignition Temperature 420

(°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Product cures with moisture. Reactivity

10.2. Chemical stability

Stability 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 Protect from moisture. Product cures with moisture.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are **Hazardous decomposition**

formed by hydrolysis and released upon curing. products

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

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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.

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 (oral)
 >5000 mg/kg

 ATEmix (dermal)
 >5000 mg/kg

 ATEmix (inhalation-gas)
 >20000 ppm

 ATEmix (inhalation-dust/mist)
 >5 mg/l

 ATEmix (inhalation-vapour)
 >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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
N-(3-(trimethoxysilyl)propyl)eth ylenediamine	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air
Dioctyltinbis(acetylacetonate)	LD50 =2500 mg/kg (Rattus)	LD50 >2000 mg/kg (Rattus)	= 5.1 mg/L (Rat) 4 h
N-[3-(Dimethoxymethylsilyl)pro pyl]-ethylenediamine	=200 - 2000 mg/Kg (Rattus) (OECD 401)	>5000 mg/Kg (Oryctolagus cuniculus) (OECD 402)	> 5.2 mg/L (Rattus)4 h (OECD 403)

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

Skin corrosion/irritationBased on available data, the classification criteria are not met.

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					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

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

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

Titanium dioxide (13463-67-7)

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

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

May produce an allergic reaction. OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data.

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

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			

Dioctyltinbis(acetylacetonate) (54068-28-9)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin		Dermal	> 5 % sensitising
Sensitisation: Local Lymph Node			-
Assay			

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

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		_

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse	Mammalian cells in vitro	Negative
Mutation Test		
OECD Test No. 476: In vitro Mammalian Cell	Mammalian cells in vitro	Negative
Gene Mutation Test		-

Carcinogenicity

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicity

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

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N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	NOAEL >500 mg/Kg
Toxicity Study with the	Oral	
Reproduction/Developmental Toxicity Screening		
Test		

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

STOT - repeated exposureBased 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					

N-(3-(trimethoxysilyI)propyI)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Subacute oral		28 days	NOAEL >500 mg/kg
Combined Repeated Dose		toxicity gavage			
Toxicity Study with the					
Reproduction/Developme					
ntal Toxicity Screening					
Test					

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

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
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	·				
Titanium dioxide	LC50 (96h)	-	-	-		
13463-67-7	>10000 mg/l					
	(Cyprinodon					

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	variegatus)				
	OECD 203				
N-(3-(trimethoxysilyl)pr	-	LC50 (96H)	-	EC50 (48h)	
opyl)ethylenediamine		=597 mg/L		=81mg/L	
1760-24-3		(Danio		Daphnia magna	
		rerio)Semi-static		Static	
Dioctyltinbis(acetylacet	-	LC50 (96h) =86	-	EC50 (48h)	
onate)		mg/L (Static)		=58.6 mg/L	
54068-28-9				(Daphnia	
				magna)	

12.2. Persistence and degradability

Persistence and degradability No in

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)			

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

•		
Chemical name		Partition coefficient
Trimethoxyvinylsilane		1.1
Ī	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

threshold of declaration.

Chemical name	PBT and vPvB assessment
Trimethoxyvinylsilane	The substance is not PBT / vPvB
Titanium dioxide	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine	The substance is not PBT / vPvB
Dioctyltinbis(acetylacetonate)	The substance is not PBT / vPvB
N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

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.

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

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

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 UN 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 precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated NP

14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

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 number Not regulated 14.2 UN 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 precautions for user

Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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, Authorisation, 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)

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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
Diisononyl phthalate	28553-12-0	52[a].
Dioctyltinbis(acetylacetonate)	54068-28-9	20.

20 (6) DOT

52

Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children

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) 649/2012 - Annex	
	Number	
Dioctyltinbis(acetylacetonate) - 54068-28-9	1.1	

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

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

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 11: Combustible solids

Netherlands

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

Not Listed

Occupational exposure limits AFS 2018:1

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Denmark

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

1-1 **MAL-Code**

AT-Guide C.0.1 August 2007: Limit values for substances and materials

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

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. 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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H371 - May cause damage to organs

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 µm, length > 5 µm 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 ≤ 10 µm

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

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

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

AGW Biological limit value Occupational exposure limit value **BGW** Maximum limit value Sk* Skin designation Ceiling

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	

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A outo inhalation tovicity, and	Calculation mathed
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
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

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Revision note SDS sections updated 1 11

Training Advice No information available

Further information No information available

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

Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

Disclaimer

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End of Safety Data Sheet

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