

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

# 4TECX CONSTRUCTION KIT

Supercedes Date: 24-Dec-2021

### Revision date 02-Nov-2022 Revision Number 2

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

1.1. Product identifier				
Product name Product number	4TECX CONSTRUCTION KIT 4058000312/ 4058000321/ 4058000330/ 4058000338			
Other means of identification				
Pure substance/mixture	Mixture			
1.2. Relevant identified uses of the	e 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				
1.3. Details of the supplier of the s	safety data sheet			

<u>Company Name</u>	
Zevij-Necomij	
Touwslagerijweg 4	
4906 CS OOSTERHOU	Т
THE NETHERLANDS	
Telephone number:	+31 (0) 162 426917
Fax number:	+31 (0) 162 432553
E-mail address:	info@zevij-necomij.com
Website:	www.4tecx.com

# 1.4. Emergency telephone number

Emergency Telephone 112

# **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]

#### 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

# 2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) 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 (EU Index No).		Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	REACH registration number
Diisononyl phthalate 10 - <20 %	249-079-5	28553-12-0	[1]	-	-	-	01-2119430798- 28-XXXX
Trimethoxyvinylsilane 1 - <2.5 %	(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
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- <1 %	483-270-6	54068-28-9	STOT SE 2 (H371) Skin Sens. 1 (H317)	Skin Sens. 1 ::	-	-	01-0000020199- 67-XXXX
N-[3-(Dimethoxymethylsil yl)propyl]-ethylenediamin e 0.1- <1 %	221-336-6	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)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	concentration limit		M-Factor (long-ter m)	-
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 (H311) 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

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

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Chemical name	EC No (EU	CAS No	Oral LD50	Dermal LD50	Inhalation	Inhalation	Inhalation
	Index No)		mg/kg	mg/kg	LC50 - 4 hour -	LC50 - 4 hour -	LC50 - 4 hour -
					dust/mist -	vapour - mg/L	gas - ppm
					mg/L		
Diisononyl phthalate	249-079-5	28553-12-0	-	-	-	-	-
Trimethoxyvinylsilane	(014-049-00-0)	2768-02-7	-	-	-	11	-
	220-449-8						
Titanium dioxide	(022-006-00-2)	13463-67-7	-	-	-	-	-
	236-675-5						
N-(3-(trimethoxysilyl)pr	217-164-6	1760-24-3	-	-	1.5	-	-
opyl)ethylenediamine							
Dioctyltinbis(acetylacet	483-270-6	54068-28-9	-	-	-	-	-
onate)							
N-[3-(Dimethoxymethyl		3069-29-2	500	-	-	-	-
silyl)propyl]-ethylenedia							
mine							

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

# <u>SECTION 4: First aid measures</u>

# 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.			
4.2. Most important symptoms an	d 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

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

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

## 5.3. Advice for firefighters

Special protective equipment and Wear self contained breathing apparatus for fire fighting if necessary. precautions for fire-fighters

SECTION 6: Accidental rel	ease measures
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### 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.		
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.		
<u>SECTION 7:</u>	<u>Handling and storage</u>		
7.1. Precautions for safe handling	1		
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	ncluding 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)			

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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

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

# 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 67-56-1	TWA: 200 ppm TWA: 260 mg/m³
	*

## Derived No Effect Level (DNEL) No

No information available

Derived No Effect Level (DNEL)						
Diisononyl phthalate (28553-12-	Diisononyl phthalate (28553-12-0)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
worker Long term Systemic health effects	Inhalation	51.72 mg/m <sup>3</sup>				
worker Long term Systemic health effects	Dermal	366 mg/kg bw/d				

Trimethoxyvinylsilane (2768-02-7)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Systemic health effects Long term	Inhalation	27,6 mg/m <sup>3</sup>			
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
worker	Inhalation	10 mg/m <sup>3</sup>	
Long term Local health effects			

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

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Dioctyltinbis(acetylacetonate) (54068-28-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Dermal	0.07 mg/kg bw/d	
Long term Systemic health effects worker	Inhalation	84 mg/m <sup>3</sup>	
Short term Systemic health effects worker	Inhalation	84 mg/m <sup>3</sup>	
Long term Short term Local health effects worker	Inhalation	0.091 mg/m <sup>3</sup>	

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	12 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	1.7 mg/kg bw/d	

Derived No Effect Level (DN	Derived No Effect Level (DNEL)			
Trimethoxyvinylsilane (2768	-02-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m <sup>3</sup>		
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			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)			
Туре		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/m <sup>3</sup>	
Consumer Systemic health effects Long term	Dermal	2.5 mg/kg bw/d	

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N-[3-(Dimethoxymethylsilyl)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.9 mg/m <sup>3</sup>	
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 No information available. (PNEC)

Predicted No Effect Concentration (PNEC)
0.34 mg/l
0.034 mg/l
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	
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]-ethylene	diamine (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.

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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:. NeopreneTM. 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, 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 physic	Solid	
Physical state	Paste	
Appearance Colour	White	
Odour	Characteristic.	
Odour threshold	No information available	
Odour threshold	NO INIOMATION AVAILABLE	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling	No data available	None known
range		
Flammability	Not applicable for liquids .	
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	e No data available	
limits		
Flash point	> 60 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН		
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	> 21 mm²/s	
Dynamic viscosity	No data available	
Water solubility	No data available. Product cures wit moisture	th
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.58 g/cm <sup>3</sup>	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
9.2. Other information		
Solid content (%)	No information available	
VOC content	No data av	ailable

**9.2.1.** Information with regards to physical hazard classes Not applicable

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**9.2.2.** Other safety characteristics No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	Product cures with moisture.
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 rea	<u>ctions</u>
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 pr	<u>oducts</u>
Hazardous decomposition products	None under normal use conditions. 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 class	es as defined in Regulation (EC) No 1272/2008
Information on likely routes of ex	posure
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	

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#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-vapour) 876.6455 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diisononyl phthalate	>9750 mg/kg (Rattus)	>3160 mg/Kg (Oryctolagus	>4.4 mg/L (Rattus) 4 h
		cuniculus)	
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	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44
ylenediamine			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	=200 - 2000 mg/Kg (Rattus)	>5000 mg/Kg (Oryctolagus	> 5.2 mg/L(Rat)4 h
pyl]-ethylenediamine	(OECD 401)	cuniculus)	_
		(OECD 402)	

### 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.

Trimethoxyvinylsilane (2768-02-7

Metho	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.	Rabbit	Dermal			Non-irritant
404: Acute Dermal					
Irritation/Corrosion					

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

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

Serious eye damage/eye irritation 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. 405: Acute Eye	Rabbit	eye		24 hours	Non-irritant
Irritation/Corrosion					

#### Titanium dioxide (13463-67-7

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

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

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit				Eye Damage

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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
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitisation responses
Sensitisation			were observed

#### Trimethoxyvinylsilane (2768-02-7

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

#### 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

Method	Species	Exposure	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig		Sensitizing

# 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	in vitro	Not mutagenic
Reverse Mutation Test		

## Carcinogenicity

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

### **Reproductive toxicity**

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

#### 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		

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# **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.

Trimethoxyvinylsilane (2768-02-7)

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

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Diisononyl phthalate 28553-12-0	EC50: >500mg/L (72h, Desmodesmus subspicatus) EC50: >1.8mg/L (96h, Pseudokirchneri ella subcapitata)	LC50 96 h > 100 mg/L (Brachydanio rerio semi-static)		EC50: >500mg/L (48h, Daphnia magna) EC50: >0.06mg/L (48h, 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	-	-	-		
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine 1760-24-3	-	LC50 (96H) =597 mg/L (Danio rerio)Semi-static		EC50 (48h) =81mg/L Daphnia magna Static		
Dioctyltinbis(acetylacet onate) 54068-28-9	-	LC50 (96h) =86 mg/L (Static)	-	EC50 (48h) =58.6 mg/L (Daphnia magna)		

# 12.2. Persistence and degradability

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## Persistence and degradability

No information available.

#### Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
5	28 days	BOD	51 % Not readily
Biodegradability: Manometric Respirometry Test (TG 301 F)			biodegradable

## 12.3. Bioaccumulative potential

### **Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Diisononyl phthalate	9.7
Trimethoxyvinylsilane	1.1
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

Chemical name	PBT and vPvB assessment	
Diisononyl phthalate	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Trimethoxyvinylsilane	The substance is not PBT / vPvB	
Titanium dioxide	The substance is not PBT / vPvB PBT assessment does	
	not apply	
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

# **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**

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Land transport (ADR/RID) 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) No 14.4 Packing group 14.5 Environmental hazards 14.6 Special Provisions	Not regulated Not regulated t regulated Not regulated Not applicable None
IMDG 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) No 14.4 Packing group 14.5 Marine pollutant 14.6 Special Provisions	Not regulated Not regulated tregulated Not regulated NP None
14.7 Maritime transport in bulk according to IMO instruments Air transport (ICAO-TI / IATA-DGR)	Not applicable

<u>Air transport (ICAO-II / IATA-DGR)</u>	
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

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

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)

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#### **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
Dioctyltinbis(acetylacetonate) - 54068-28-9	l.1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Persistent Organic Pollutants Not applicable

#### National regulations

**France** 

### <u>Germany</u>

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

#### 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
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H335 May cause respiratory irritation H371 - May cause damage to organs
- ..... may bause damage

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Notes assigned to an entry

**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 <a href="http://ec.europa.eu/environment/waste/framework/list.htm">http://ec.europa.eu/environment/waste/framework/list.htm</a>)

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	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 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
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

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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	Product Safety & Regulatory Affairs
Revision date	02-Nov-2022
Training Advice	When working with hazardous materials, regular training of operators is required by law
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