

# Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 558190

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Unibond W&D Frame White

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

#### 1.1. Product identifier

Unibond W&D Frame White

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

Intended use:

Joint sealant, silicone

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

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone:

+44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (CLP):

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Chronic hazards to the aquatic environment

Category 3

H412 Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

### Label elements (CLP):

## Hazard pictogram:



Signal word: Warning

**Hazard statement:** H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Supplemental information** Contains: Trimethoxyvinylsilane May produce an allergic reaction.

**Precautionary statement:** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statement: P273 Avoid release to the environment.
Prevention P280 Wear protective gloves/eye protection.

**Precautionary statement:** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

**Precautionary statement:** 

Disposal

Response

P501 Dispose of contents/container in accordance with national regulation.

#### 2.3. Other hazards

Evolves methanol during cure.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

octamethylcyclotetrasiloxane	PBT/vPvB
556-67-2	

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

### 3.2. Mixtures

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Titanium tertabutanolate 5593-70-4 227-006-8 01-2119967423-33	1- < 3 %	Skin Irrit. 2, Dermal, H315 Eye Dam. 1, H318 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336		
methanol 67-56-1 200-659-6 01-2119433307-44	0,1-< 1 %	Flam. Liq. 2, H225 Acute Tox. 3, Inhalation, H331 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Oral, H301 STOT SE 1, H370	STOT SE 1; H370; C >= 10 % STOT SE 2; H371; C 3 - < 10 % ====== oral:ATE = 300 mg/kg	EU OEL
Trimethoxyvinylsilane 2768-02-7 220-449-8 01-2119513215-52	0,1-< 1 %	Flam. Liq. 3, H226 Acute Tox. 4, Inhalation, H332 STOT RE 2, H373 Skin Sens. 1B, H317		
Titanium dioxide 13463-67-7 236-675-5 01-2119489379-17	0,1-< 1 %	Carc. 2, Inhalation, H351		
octamethylcyclotetrasiloxane 556-67-2 209-136-7 01-2119529238-36	0,025-< 0,25 % ( 0,25 %o- < 2,5 %o)	Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226	M chronic = 10	SVHC PBT/vPvB

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

Causes serious eye irritation.

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

#### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

#### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

### **5.3.** Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

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

Wear protective equipment.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

#### 6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

### Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Keep container tightly sealed.

Store in a cool, dry place.

Temperatures between + 5 °C and + 25 °C

Keep container tightly sealed.

Store in a cool, dry place.

Temperatures between + 5 °C and + 25 °C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

#### 7.3. Specific end use(s)

Joint sealant, silicone

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ient [Regulated substance] ppm mg/m³ Value type		Short term exposure limit category / Remarks	Regulatory list	
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Methanol 67-56-1 [METHANOL]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Methanol 67-56-1 [METHANOL]	200	266	Time Weighted Average (TWA):		EH40 WEL
Methanol 67-56-1 [METHANOL]	200	260	Time Weighted Average (TWA):	Indicative	ECTLV
Methanol 67-56-1 [METHANOL]	250	333	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit	Regulatory list
			i vaiue tybe		

				category / Remarks	
Calcium carbonate		4	Time Weighted Average		IR_OEL
471-34-1			(TWA):		
[CALCIUM CARBONATE]					
Calcium carbonate		10	Time Weighted Average		IR_OEL
471-34-1			(TWA):		
[CALCIUM CARBONATE]		1.			TD 077
Calcium carbonate		4	Time Weighted Average		IR_OEL
471-34-1			(TWA):		
[DUSTS NON-SPECIFIC]		10	TP: XX7 : 1 . 1 A		ID OFF
Calcium carbonate 471-34-1		10	Time Weighted Average		IR_OEL
[DUSTS NON-SPECIFIC]			(TWA):		
			TP: XX7 : 1 4 1 A		ID OFF
Silicon dioxide		6	Time Weighted Average		IR_OEL
112945-52-5 [SILICA, AMORPHOUS]			(TWA):		
Silicon dioxide		2.4	T: W-:-1-4-1 A		IR OEL
112945-52-5		2,4	Time Weighted Average (TWA):		IK_OEL
[SILICA, AMORPHOUS]			(1 WA).		
Silicon dioxide		10	Time Weighted Average		IR_OEL
112945-52-5		10	(TWA):		IK_OEL
[DUSTS NON-SPECIFIC]			(1 11/1).		
Silicon dioxide		4	Time Weighted Average		IR OEL
112945-52-5			(TWA):		IK_OLL
[DUSTS NON-SPECIFIC]			(1111)		
Methanol	200	260	Time Weighted Average	Indicative OELV	IR OEL
67-56-1	200	200	(TWA):	maleutive GEE v	IK_ODE
[METHANOL]					
Methanol			Skin designation:	Can be absorbed through the	IR OEL
67-56-1				skin.	
[METHANOL]					
Methanol	200	260	Time Weighted Average	Indicative	ECTLV
67-56-1			(TWA):		
[METHANOL]					
Titanium dioxide		10	Time Weighted Average		IR_OEL
13463-67-7			(TWA):		
[TITANIUM DIOXIDE]					
Titanium dioxide		4	Time Weighted Average		IR_OEL
13463-67-7			(TWA):		
[TITANIUM DIOXIDE]					

# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
	Compartment	periou	mg/l	ppm	mg/kg	others	
Titanium tetrabutanolate	aqua		0,08 mg/l				
5593-70-4	(freshwater)						
Titanium tetrabutanolate 5593-70-4	aqua (intermittent		2,25 mg/l				
3393-70-4	releases)						
Titanium tetrabutanolate	aqua (marine		0,008 mg/l				
5593-70-4	water)		0,000 111g 1				
Titanium tetrabutanolate	sewage		65 mg/l				
5593-70-4	treatment plant (STP)						
Titanium tetrabutanolate	sediment				0,069		
5593-70-4 Titanium tetrabutanolate	(freshwater) sediment				mg/kg 0,007		
5593-70-4	(marine water)				mg/kg		
Titanium tetrabutanolate	Soil				0,017		
5593-70-4	Soli				mg/kg		
Titanium tetrabutanolate 5593-70-4	Predator						no potential for bioaccumulation
methanol	aqua						no hazard identified
67-56-1	(freshwater)						
methanol	sediment						no hazard identified
67-56-1 methanol	(freshwater)						no hazard identified
67-56-1	aqua (marine water)						no nazard identified
methanol	Soil						no hazard identified
67-56-1	1						
methanol	sewage						no hazard identified
67-56-1	treatment plant (STP)						
methanol	aqua						no hazard identified
67-56-1	(intermittent releases)						
methanol	sediment						no hazard identified
67-56-1	(marine water)						
Trimethoxyvinylsilane	aqua		0,4 mg/l				
2768-02-7 Trimethoxyvinylsilane	(freshwater) aqua (marine		0,04 mg/l				
2768-02-7	water)		0,04 mg/1				
Trimethoxyvinylsilane	Freshwater -		1,21 mg/l				
2768-02-7	intermittent		, 8				
Trimethoxyvinylsilane	sediment				1,5 mg/kg		
2768-02-7	(freshwater)				0.15 "		
Trimethoxyvinylsilane 2768-02-7	sediment (marine water)				0,15 mg/kg		
Trimethoxyvinylsilane	Soil				0,06 mg/kg		
2768-02-7	Son				0,00 mg/kg		
Octamethylcyclotetrasiloxane	aqua		0,0015				
556-67-2	(freshwater)		mg/l				
Octamethylcyclotetrasiloxane 556-67-2	aqua (marine water)		0,00015 mg/l				
Octamethylcyclotetrasiloxane	sewage		10 mg/l				
556-67-2	treatment plant (STP)						
Octamethylcyclotetrasiloxane	sediment	]	1		3 mg/kg		
556-67-2	(freshwater)		+		0.2 "	-	
Octamethylcyclotetrasiloxane 556-67-2	sediment (marine water)				0,3 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	oral				41 mg/kg		
Octamethylcyclotetrasiloxane	Soil	]			0,84 mg/kg		
556-67-2							

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Titanium tetrabutanolate 5593-70-4	General population	oral	Long term exposure - systemic effects		3,75 mg/kg	no potential for bioaccumulation
Titanium tetrabutanolate 5593-70-4	General population	dermal	Long term exposure - systemic effects		37,5 mg/kg	no potential for bioaccumulation
Titanium tetrabutanolate 5593-70-4	General population	inhalation	Long term exposure - systemic effects		152 mg/m3	no potential for bioaccumulation
Titanium tetrabutanolate 5593-70-4	Workers	inhalation	Long term exposure - systemic effects		127 mg/m3	no potential for bioaccumulation
methanol 67-56-1	Workers	inhalation	Long term exposure - systemic effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Acute/short term exposure - systemic effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Long term exposure - local effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Acute/short term exposure - local effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	dermal	Long term exposure - systemic effects		40 mg/kg	no hazard identified
methanol 67-56-1	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	no hazard identified
methanol 67-56-1	General population	inhalation	Long term exposure - systemic effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	inhalation	Acute/short term exposure - systemic effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	inhalation	Long term exposure - local effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	inhalation	Acute/short term exposure - local effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	dermal	Long term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	dermal	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	oral	Long term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	oral	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified
Trimethoxyvinylsilane 2768-02-7	Workers	dermal	Long term exposure - systemic effects		0,91 mg/kg	
Trimethoxyvinylsilane 2768-02-7	Workers	inhalation	Long term exposure - systemic effects		27,6 mg/m3	
Trimethoxyvinylsilane 2768-02-7	General population	dermal	Long term exposure - systemic effects		0,63 mg/kg	
Trimethoxyvinylsilane 2768-02-7	General population	inhalation	Long term exposure - systemic effects		6,8 mg/m3	
Trimethoxyvinylsilane 2768-02-7	General population	oral	Long term exposure - systemic effects		0,63 mg/kg	
Trimethoxyvinylsilane 2768-02-7	Workers	inhalation	Acute/short term exposure -		73,6 mg/m3	

			systemic effects		
Trimethoxyvinylsilane 2768-02-7	General population	inhalation	Acute/short term exposure - systemic effects	54,4 mg/m3	
Titanium dioxide 13463-67-7	Workers	inhalation	Long term exposure - local effects	0,17 mg/m3	
Titanium dioxide 13463-67-7	General population	inhalation	Long term exposure - local effects	0,028 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Long term exposure - systemic effects	73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Long term exposure - local effects	73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - systemic effects	13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - local effects	13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	oral	Long term exposure - systemic effects	3,7 mg/kg	

#### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

## Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

#### Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374. material thickness > 0.2 mm

Perforation time > 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

#### Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

#### Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

### Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

# **SECTION 9: Physical and chemical properties**

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

Physical state solid Delivery form paste Colour varied, according to coloration

Odor odourless

Melting point  $< -50 \, ^{\circ}\text{C} \, (< -58 \, ^{\circ}\text{F})$ 

Solidification temperature Not applicable, Product is a solid.

Initial boiling point Not applicable

Flammability The product is not flammable. Explosive limits Not applicable, Product is a solid. Flash point Not applicable, Product is a solid. Flash point 117 °C (242.6 °F); no method Not applicable, Product is a solid. Auto-ignition temperature

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no

organic peroxide and does not decompose under foreseen

conditions of use

рН Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) Not applicable, Product is a solid. Viscosity, dynamic

Not applicable

Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative)

(23 °C (73.4 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Mixture Vapour pressure

(20 °C (68 °F))

Density

(20 °C (68 °F))

Density

(20 °C (68 °F))

Relative vapour density: Particle characteristics

Insoluble

Insoluble

Not applicable

< 0,5 Pa

1,400 g/cm3 Density of pasty masses (immersion weighing

method)

1,4 g/cm3 no method

Not applicable, Product is a solid. Not applicable, mixture is a paste.

### 9.2. Other information

Other information not applicable for this product

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

# 10.5. Incompatible materials

None if used properly.

## 10.6. Hazardous decomposition products

Evolves methanol during cure.

# **SECTION 11: Toxicological information**

## General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Titanium tetrabutanolate 5593-70-4	LD50	3.122 mg/kg	rat	not specified
methanol 67-56-1	Acute toxicity estimate (ATE)	300 mg/kg		Expert judgement
Trimethoxyvinylsilane 2768-02-7	LD50	7.120 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Titanium dioxide 13463-67-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
octamethylcyclotetrasilox ane 556-67-2	LD50	> 4.800 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Titanium tetrabutanolate 5593-70-4	LD50	5.300 mg/kg	rabbit	not specified
Trimethoxyvinylsilane 2768-02-7	LD50	3.200 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Titanium dioxide 13463-67-7	LD50	> 10.000 mg/kg	rabbit	not specified
octamethylcyclotetrasilox ane 556-67-2	LD50	> 2.375 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

## Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Titanium tetrabutanolate 5593-70-4	LC50	11 mg/l	dust/mist	4 h	rat	not specified
Trimethoxyvinylsilane 2768-02-7	LC50	16,8 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Titanium dioxide 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified
octamethylcyclotetrasilox ane 556-67-2	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test
Trimethoxyvinylsilane 2768-02-7	not irritating		rabbit	other guideline:
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

### Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Trimethoxyvinylsilane 2768-02-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

## Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
methanol	not sensitising	Guinea pig maximisation	guinea pig	equivalent or similar to OECD Guideline
67-56-1		test		406 (Skin Sensitisation)
Trimethoxyvinylsilane 2768-02-7	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Titanium dioxide 13463-67-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
octamethylcyclotetrasilox ane 556-67-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

# Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
methanol 67-56-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methanol 67-56-1	negative	in vitro mammalian cell micronucleus test	without		not specified
methanol 67-56-1	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Trimethoxyvinylsilane 2768-02-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Trimethoxyvinylsilane 2768-02-7	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Trimethoxyvinylsilane 2768-02-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Titanium dioxide 13463-67-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Titanium dioxide 13463-67-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Titanium dioxide 13463-67-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Titanium dioxide 13463-67-7	negative	in vitro mammalian cell micronucleus test	without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
octamethylcyclotetrasilox ane 556-67-2	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
octamethylcyclotetrasilox ane 556-67-2	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
octamethylcyclotetrasilox ane 556-67-2	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Trimethoxyvinylsilane 2768-02-7	negative	intraperitoneal		mouse	other guideline:
Titanium dioxide 13463-67-7	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
octamethylcyclotetrasilox ane 556-67-2	negative	inhalation		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
octamethylcyclotetrasilox ane 556-67-2	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

# Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
methanol 67-56-1	not carcinogenic	inhalation: vapour	18 m 19 h/d	mouse	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Titanium dioxide 13463-67-7	not carcinogenic	oral: feed	103 w daily	rat	male/female	not specified

# Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
methanol 67-56-1	NOAEL P 1,3 mg/l NOAEL F1 0,13 mg/l NOAEL F2 0,13 mg/l	Two generation study	inhalation	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Trimethoxyvinylsilane 2768-02-7	NOAEL P 250 mg/kg	one- generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Trimethoxyvinylsilane 2768-02-7	NOAEL P 1.000 mg/kg	one- generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Trimethoxyvinylsilane 2768-02-7	NOAEL F1 1.000 mg/kg	one- generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Titanium dioxide 13463-67-7	NOAEL P >= $1.000 \text{ mg/kg}$ NOAEL F1 >= $1.000 \text{ mg/kg}$	one- generation study	oral: feed	rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
octamethylcyclotetrasilox ane 556-67-2	NOAEL P 300 ppm NOAEL F1 300 ppm	two- generation study	inhalation	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

## STOT-single exposure:

No data available.

# STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
methanol 67-56-1	NOAEL 6,63 mg/l	inhalation: vapour	4 weeks 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	NOAEL 0,13 mg/l	inhalation: vapour	12 m 20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Trimethoxyvinylsilane 2768-02-7	NOAEL < 62,5 mg/kg	oral: gavage	42d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Trimethoxyvinylsilane 2768-02-7	NOAEL 0,605 mg/l	inhalation: vapour	5 days/week for 14 weeks 6 hours/day	rat	not specified
Titanium dioxide 13463-67-7	NOAEL > 1.000 mg/kg	oral: gavage	92 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
octamethylcyclotetrasilox ane 556-67-2	LOAEL 35 ppm	inhalation	6 h nose only inhalation 5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
octamethylcyclotetrasilox ane 556-67-2	NOAEL 960 mg/kg	dermal	3 w 5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

## Aspiration hazard:

No data available.

### 11.2 Information on other hazards

not applicable

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains, soil or bodies of water.

## 12.1. Toxicity

## **Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
methanol	LC50	15.400 mg/l	96 h	Lepomis macrochirus	EPA-660 (Methods for
67-56-1					Acute Toxicity Tests with
					Fish, Macroinvertebrates
					and Amphibians)
methanol	NOEC	7.900 mg/l	200 h	Oryzias latipes	OECD Guideline 210 (fish
67-56-1					early lite stage toxicity test)
Trimethoxyvinylsilane	LC50	191 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
2768-02-7					Acute Toxicity Test)
Titanium dioxide	LC50	Toxicity > Water	48 h	Leuciscus idus	OECD Guideline 203 (Fish,
13463-67-7		solubility			Acute Toxicity Test)
octamethylcyclotetrasiloxane	NOEC	0,0044 mg/l	93 d	Salmo gairdneri (new name:	EPA OPPTS 797.1600 (Fish
556-67-2				Oncorhynchus mykiss)	Early Life Stage Toxicity
					Test)
octamethylcyclotetrasiloxane	LC50	Toxicity > Water	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish
556-67-2		solubility			Acute Toxicity Test)

### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
methanol	EC50	18.260 mg/l	96 h	Daphnia magna	OECD Guideline 202
67-56-1					(Daphnia sp. Acute
					Immobilisation Test)
Trimethoxyvinylsilane	EC50	168,7 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute
2768-02-7					Toxicity for Daphnia)
Titanium dioxide	EC50	Toxicity > Water	48 h	Daphnia magna	OECD Guideline 202
13463-67-7		solubility			(Daphnia sp. Acute
					Immobilisation Test)
octamethylcyclotetrasiloxane	EC50	Toxicity > Water	48 h	Daphnia magna	EPA OTS 797.1300
556-67-2		solubility			(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)

## Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Trimethoxyvinylsilane 2768-02-7	NOEC	28,1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
octamethylcyclotetrasiloxane 556-67-2	NOEC	7.9 μg/l	21 d	Daphnia magna	EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)

## Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium tetrabutanolate 5593-70-4	EC50	225 mg/l	96 h	Algae, algal mat (Algae)	not specified
methanol 67-56-1	EC50	22.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Trimethoxyvinylsilane 2768-02-7	EC50	> 957 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Trimethoxyvinylsilane 2768-02-7	NOEC	957 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC10	0,022 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)

# Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
methanol	IC50	> 1.000 mg/l	3 h	activated sludge of a	OECD Guideline 209
67-56-1				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
Trimethoxyvinylsilane	EC50	> 100 mg/l	3 h	activated sludge of a	OECD Guideline 209
2768-02-7				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
Titanium dioxide	EC0	Toxicity > Water	24 h	Pseudomonas fluorescens	DIN 38412, part 8
13463-67-7		solubility			(Pseudomonas
					Zellvermehrungshemm-
					Test)
octamethylcyclotetrasiloxane	EC50	Toxicity > Water	3 h	activated sludge	ISO 8192 (Test for
556-67-2		solubility			Inhibition of Oxygen
					Consumption by Activated
					Sludge)

## 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Titanium tetrabutanolate 5593-70-4	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Trimethoxyvinylsilane 2768-02-7	not readily biodegradable.	aerobic	51 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3,7 %	29 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)

### 12.3. Bioaccumulative potential

Hazardous substances	Bioconcentratio	Exposure time	Temperature	Species	Method
CAS-No.	n factor (BCF)				
methanol	< 10	72 h		Leuciscus idus	not specified
67-56-1				melanotus	
octamethylcyclotetrasiloxane	12.400	28 d		Pimephales	EPA OTS 797.1520 (Fish
556-67-2				promelas	Bioconcentration Test-Rainbow
					Trout)

## 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
methanol	-0,77		other guideline:
67-56-1			
octamethylcyclotetrasiloxane	6,98	21,7 °C	other guideline:
556-67-2			

## 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB	
CAS-No.		
Titanium tetrabutanolate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
5593-70-4	Bioaccumulative (vPvB) criteria.	
methanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
67-56-1	Bioaccumulative (vPvB) criteria.	
Trimethoxyvinylsilane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
2768-02-7	Bioaccumulative (vPvB) criteria.	
Titanium dioxide	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not	
13463-67-7	be conducted for inorganic substances.	
octamethylcyclotetrasiloxane	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
556-67-2	Bioaccumulative (vPvB) criteria.	

# 12.6. Endocrine disrupting properties

not applicable

## 12.7. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code 080409

## **SECTION 14: Transport information**

### 14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

No information available:

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

#### **Further information:**

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