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> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

4W Adhesive 290 ml Art.: 9017046 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Adhesive sealant Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### **1.4 Emergency telephone number** Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction. EUH210-Safety data sheet available on request. EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

3.1 Substances

- n.a.
- 3.2 Mixtures

Titanium dioxide (in powder form containing 1 % or	
more of particles with aerodynamic diameter $\langle = 10 \ \mu m \rangle$	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

Trimethoxyvinylsilane	
Registration number (REACH)	01-2119513215-52-XXXX
Index	014-049-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	220-449-8
CAS	2768-02-7
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP), M-factors	Acute Tox. 4, H332
	Skin Sens. 1B, H317

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.



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# 4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation Supply person with fresh air and consult doctor according to symptoms. Skin contact Wipe off residual product carefully with a soft, dry cloth. Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor. **Eve contact** Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Ingestion Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media Adapt to the nature and extent of fire. Unsuitable extinguishing media None 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Nitro gases Hydrogen chloride Toxic gases 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Dispose of contaminated extinction water according to official regulations.

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

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.



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# 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### **6.2 Environmental precautions**

If leakage occurs, dam up. Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

# **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

# 7.1.1 General recommendations

Prevent long-term skin contact.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

#### Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store at room temperature.

Suitable container:

Plastic

## 7.3 Specific end use(s)

No information available at present.

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

### **8.1 Control parameters**

<sup>(B)</sup> Chemical Name		Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu$ m)				
WEL-TWA: 10 mg/m3 (to	tal inhalable	WEL-STEL:				
dust), 4 mg/m3 (respirable d	ust)					
Monitoring procedures:	-					
BMGV: Other information:						
<sup>68</sup> Chemical Name	Calcium carbo	onate				Content %:



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WEL-TWA: 4 mg/m3 (resp 10 mg/m3 (total inhalable du	L	WEL-STEL:				
Monitoring procedures: BMGV:				Otherinformation		
BNIGV:				Other information	l:	
Chemical Name	Methanol					Content %:
WEL-TWA: 200 ppm (266	5 mg/m3)	WEL-STEL:	250 ppm (	(333 mg/m3		
(WEL), 200 ppm (260 mg/m	3) (EU)	(WEL)				
Monitoring procedures:	-	Draeger - Alcoho	ol 25/a Met	hanol (81 01 631)		
	-	Compur - KITA-	119 SA (54	49 640)		
	- (	Compur - KITA-	119 U (549	9 657)		
		DFG Meth. Nr. 6	6 (D) (Loes	ungsmittelgemische	e 6), DF	G(E)
		(Solvent mixture	s 6) - 2013	, 2002 - EU project		
	-	BC/CEN/ENTR/	000/2002-	16 card 65-1 (2004)	)	
	-	NIOSH 2000 (M	ETHANO	L) - 1998		
		NIOSH 2549 (V	OLATILE	ORGANIC COMP	OUND	S
	-	(SCREENING))	- 1996			
		NIOSH 3800 (O	RGANIC A	AND INORGANIC	GASES	SBY
	-	EXTRACTIVE	FTIR SPEC	CTROMETRY) - 20	016	
	-	Draeger - Alcoho	ol 100/a (C	H 29 701)		
BMGV:				Other information	: Sk (	WEL, EU)
Chemical Name	general dust li	imit				Content %:
WEL-TWA: 10 mg/m3 (in	hal. dust), 4	WEL-STEL:				
mg/m3 (respir. dust)						
Monitoring procedures:						
BMGV:				Other information	:	

Other information:	
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Titanium dioxide (in	powder form containing	1 % or more of par	ticles with a	erodyna	mic diame	eter <= 2
um)						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,184	mg/l	
	freshwater				C	
	Environment - marine		PNEC	0,018	mg/l	
				4	C	
	Environment - water,		PNEC	0,193	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	100	mg/l	
	sewage treatment				C	
	plant					
	Environment -		PNEC	1000	mg/kg	
	sediment, freshwater				dw	
	Environment -		PNEC	100	mg/kg	
	sediment, marine				dw	
	Environment - soil		PNEC	100	mg/kg	
					dw	
	Environment - oral		PNEC	1667	mg/kg	
	(animal feed)				feed	



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Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Trimethoxyvinylsilan	e					
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	0,4	mg/l	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
	Environment - marine		PNEC	0,04	mg/l	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
	Environment - water, sporadic (intermittent) release		PNEC	2,4	mg/l	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
	Environment - sewage treatment plant		PNEC	6,6	mg/l	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt



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	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
	Environment - sediment, marine		PNEC	0,15	mg/kg dw	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
	Environment - soil		PNEC	0,06	mg/kg dw	Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt
Consumer	Human - dermal	Short term, systemic effects	DNEL	0,1	mg/kg bw/day	•
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	93,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,6	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	4,9	mg/m3	

Calcium carbonate



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Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	

Methanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	154	mg/l	
	Environment - marine		PNEC	15,4	mg/l	
	Environment - sediment, freshwater		PNEC	570,4	mg/kg	
	Environment - sediment, marine		PNEC	57,04	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	1540	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	50	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/d ay	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body weight/d ay	



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Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg body weight/d
					ay
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	8	mg/kg body weight/d ay
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	40	mg/kg body weight/d ay
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	40	mg/kg body weight/d ay
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	260	mg/m3

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.



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Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Recommended Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Normally not necessary. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### **8.2.3** Environmental exposure controls

No information available at present.

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

**9.1 Information on basic physical and chemical properties**Physical state: Paste, Solid



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# Colour:

Odour: Odour threshold: Melting point/freezing point: Initial boiling point and boiling range: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH-value: Viscosity: Water solubility: Partition coefficient (n-octanol/water): Vapour pressure: Density: Vapour density (air = 1): Evaporation rate: Bulk density: Solubility(ies): Explosive properties: Oxidising properties: 9.2 Other information Miscibility: Conductivity: Fat solubility / solvent: Solvents content: Surface tension:

According to specification Slightly Not determined Not determined Not determined Not determined Not determined Not determined >200 °C Not determined Not determined Not determined Not determined Insoluble n.a. Not determined 1,455 g/cm3 Not determined Not determined n.a. Organic solvents Product is not explosive. No Not determined Not determined Not determined <2 % (Organic solvents) Not determined

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

# **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** None known **10.5 Incompatible materials** None known **10.6 Hazardous decomposition products** No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

Possibly more information on health effects, see Section 2.1 (classification).



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4W Adhesive 290 ml						
Art.: 9017046						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 425 (Acute	
route:					Oral Toxicity -	
					Up-and-Down	
					Procedure)	
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit		
dermal route:						
Acute toxicity, by	LD50	>6,8	mg/l/4h	Rat		
inhalation:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant,
damage/irritation:					Eye	Mechanical
					Irritation/Corrosio	irritation
					n)	possible.
Respiratory or skin				Mouse	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	



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Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	
Germ cell mutagenicity:				Mammalia	OECD 473 (In	Negative
6				n	Vitro Mammalian	0.0
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
Gerni cen mutagementy.					(Ames-rest)	Inegative
				typhimuri		
				um		
Germ cell mutagenicity:					OECD 476 (In	Negative
					Vitro Mammalian	
					Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
Reproductive toxicity				Rat	OECD 414	No
(Developmental					(Prenatal	indications
toxicity):					Developmental	of such an
					Toxicity Study)	effect.
Specific target organ					Tomenty Study)	Not irritant
toxicity - single						(respiratory
exposure (STOT-SE):						tract).
Symptoms:						,
Symptoms.						mucous
						membrane
						irritation,
						coughing,
						respiratory
						distress,
						drying of the
						skin.
Specific target organ	NOAEL	3500	mg/kg/	Rat		90d
toxicity - repeated			d			
exposure (STOT-RE),						
oral:						
Specific target organ	NOAEC	10	mg/m3	Rat		90d
toxicity - repeated		10	1.1.6, 11.5			
exposure (STOT-RE),						
inhalat.:						
iiiiaiai						

Trimethoxyvinylsilane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	7120	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	



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Acute toxicity, by inhalation:	LD50	2773	ppm/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Slightly irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1B
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					,	Negative
Symptoms:						drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	62,5	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	Target organ(s): bladder
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	0,058	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Vapours

Calcium carbonate



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Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	Procedure) OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such an effect.



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Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.
Aspiration hazard:						No
Specific target organ	NOAEL	1000	mg/kg	Rat	OECD 422	
toxicity - repeated			bw/d		(Combined	
exposure (STOT-RE),					Repeated Dose	
oral:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Specific target organ	NOAEC	0,212	mg/l	Rat	OECD 413	
toxicity - repeated			-		(Subchronic	
exposure (STOT-RE),					Inhalation	
inhalat.:					Toxicity - 90-Day	
					Study)	

Methanol						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/kg	Human being		Experiences on persons.
Acute toxicity, by dermal route:	LD50	17100	mg/kg	Rabbit		Does not conform with EU classification
Acute toxicity, by inhalation:	LC50	85	mg/l/4h	Rat		Not relevant for classification ., Vapours
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative



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Carcinogenicity:				Mouse	OECD 453	Negative
					(Combined	
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:	NOAEL	1,3	mg/l	Mouse	OECD 416 (Two-	
					generation	
					Reproduction	
					Toxicity Study)	
Specific target organ	NOAEL	0,13	mg/l	Rat	OECD 453	
toxicity - repeated					(Combined	
exposure (STOT-RE):					Chronic	
•					Toxicity/Carcinoge	
					nicity Studies)	
Symptoms:						abdominal
						pain,
						vomiting,
						headaches,
						gastrointestin
						al
						disturbances,
						drowsiness,
						visual
						disturbances,
						watering
						eyes,
						nausea,
						mental
						confusion,
						intoxication,
						dizziness

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

4W Adhesive 290 n	nl						
Art.: 9017046							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							



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12.4. Mobility in soil:					n.d.a.
12.5. Results of					n.d.a.
PBT and vPvB assessment					
12.6. Other					n.d.a.
adverse effects:					
Other information:					DOC-
					elimination
					degree(comp
					lexing
					organic
					substance)>=
					80%/28d:
					n.a.
Other information:	AOX	0,479	%		

Titanium dioxide ( μm)											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	96h	>100	mg/l	Oncorhynchus	OECD 203					
fish:				_	mykiss	(Fish, Acute					
						Toxicity Test)					
12.1. Toxicity to	LC50	48h	>100	mg/l	Daphnia	OECD 202					
daphnia:					magna	(Daphnia sp.					
-					-	Acute					
						Immobilisatio					
						n Test)					
12.1. Toxicity to	EC50	72h	16	mg/l	Pseudokirchne	U.S. EPA-					
algae:				_	riella	600/9-78-018					
					subcapitata						
12.2. Persistence							Not relevant				
and degradability:							for inorganic				
							substances.				
12.3.	BCF	42d	9,6				Not to be				
Bioaccumulative							expected				
potential:											
12.3.	BCF	14d	19-				Oncorhynchu				
Bioaccumulative			352				s mykiss				
potential:											
12.4. Mobility in							Negative				
soil:											
12.5. Results of							No PBT				
PBT and vPvB							substance,				
assessment							No vPvB				
							substance				
Toxicity to			>5000	mg/l	Escherichia						
bacteria:					coli						
Toxicity to	LC0	24h	>1000	mg/l	Pseudomonas						
bacteria:			0		fluorescens						



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Toxicity to annelids:	NOEC/NO EL	>1000	mg/kg	Eisenia foetida	
Water solubility:					Insoluble20° C

Trimethoxyvinylsi	lane						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute	
11511.					IIIYKISS	Toxicity Test)	
12.1. Toxicity to	EC50	48h	169	mg/l	Daphnia	OECD 202	
daphnia:	2000		107		magna	(Daphnia sp.	
F					8	Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	28	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	72h	>100	mg/l	Selenastrum	OECD 201	
algae:					capricornutum	(Alga,	
						Growth	
						Inhibition	
10.1 T		701	25	/1	0.1 (	Test)	
12.1. Toxicity to	NOEC/NO EL	72h	25	mg/l	Selenastrum		
algae: 12.2. Persistence	BOD	28d	51	%	capricornutum	OECD 301 F	Not readily
and degradability:	BOD	280	51	70		(Ready	biodegradabl
and degradability.						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
12.2. Persistence		28d	51	%		OECD 301 F	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
Toxicity to	EC50	3h	>2500	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition Test (Carbon	
						Test (Carbon and	
						Ammonium	
						Oxidation))	



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12.5. Results of				No PBT
PBT and vPvB				substance,
assessment				No vPvB
				substance

Calcium carbonate			-				1
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	No observation with saturated solution of test material.
12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	No observation with saturated solution of test material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NO EL	72h	14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:						,	Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	



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Toxicity to	NOEC/NO	3h	1000	mg/l	activated	OECD 209	
bacteria:	EL				sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
Other organisms:	EC50	21d	>1000	mg/kg		OECD 208	Glycine max
				dw		(Terrestrial	
						Plants,	
						Growth Test)	
Other organisms:	EC50	21d	>1000	mg/kg		OECD 208	Lycopersicon
e				dw		(Terrestrial	esculentum
						Plants,	
						Growth Test)	
Other organisms:	EC50	21d	>1000	mg/kg		OECD 208	Avena sativa
Other organisms.	LC50	210	/1000	dw		(Terrestrial	Avena sauva
				uw			
						Plants,	
			1000			Growth Test)	
Other organisms:	NOEC/NO	21d	1000	mg/kg		OECD 208	Glycine max
	EL			dw		(Terrestrial	
						Plants,	
						Growth Test)	
Other organisms:	NOEC/NO	21d	1000	mg/kg		OECD 208	Lycopersicon
0	EL			dw		(Terrestrial	esculentum
						Plants,	
						Growth Test)	
Other organisms:	NOEC/NO	21d	1000	mg/kg		OECD 208	Avena sativa
Other organisms.	EL	210	1000	dw		(Terrestrial	1 ivenu sutivu
				uw		Plants,	
0.1	E050	1 4 1	. 1000	/1	<b>F</b> ' '	Growth Test) OECD 207	
Other organisms:	EC50	14d	>1000	mg/kg	Eisenia		
				dw	foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	
Other organisms:	NOEC/NO	14d	1000	mg/kg	Eisenia	OECD 207	
	EL			dw	foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	
Other organisms:	EC50	28d	>1000	mg/kg		OECD 216	
- mer organismis.				dw		(Soil	
						Microorganis	
						ms - Nitrogen	
						Transformatio	
						n Test)	



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Other organisms:	NOEC/NO	28d	1000	mg/kg	OECD 216
	EL			dw	(Soil
					Microorganis
					ms - Nitrogen
					Transformatio
					n Test)
Water solubility:			0,016	g/l	OECD 105 20°C
			6		(Water
					Solubility)

Methanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
12.1. Toxicity to	LC50	96h	15400	mg/l	Lepomis		EPA-660/3-
fish:				-	macrochirus		75-009
12.1. Toxicity to	EC50	96h	18260	mg/l	Daphnia	OECD 202	
daphnia:				-	magna	(Daphnia sp.	
*					C	Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	96h	22000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
C					subcapitata	Growth	
					1	Inhibition	
						Test)	
12.2. Persistence		28d	99	%		OECD 301 D	Readily
and degradability:						(Ready	biodegradal
0						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	BCF		28400		Chlorella		Not to be
Bioaccumulative					vulgaris		expected
potential:							
Toxicity to	IC50	3h	>1000	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
Other information:	Log Pow		-0,77				
Other information:	DOC		<70	%			
Other information:	BOD		>60	%			



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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

For the substance / mixture / residual amounts EC disposal code no .: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 02 plastic packaging

# **SECTION 14: Transport information**

General statements							
14.1. UN number:	n.a.						
Transport by road/by rail (ADR/RID)							
14.2. UN proper shipping name:							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
Classification code:	n.a.						
LQ:	n.a.						
14.5. Environmental hazards:	Not applicable						
Tunnel restriction code:							
Transport by sea (IMDG-code)							
14.2. UN proper shipping name:							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
Marine Pollutant:	n.a						
14.5. Environmental hazards:	Not applicable						
Transport by air (IATA)							
14.2. UN proper shipping name:							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
14.5. Environmental hazards:	Not applicable						
14.6. Special precautions for user							
Unless specified otherwise, general measures for safe transport must be followed.							
14.7. Transport in bulk according to Annex II of MA	<b>RPOL and the IBC Code</b>						

Non-dangerous material according to Transport Regulations.



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### **SECTION 15: Regulatory information**

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

Observe restrictions: Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! General hygiene measures for the handling of chemicals are applicable.

1.44 %

Directive 2010/75/EU (VOC):

#### **15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

**Revised sections:** 

2, 3, 8, 11, 12

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H226 Flammable liquid and vapour. H351 Suspected of causing cancer by inhalation. H317 May cause an allergic skin reaction. H332 Harmful if inhaled.

Carc. — Carcinogenicity Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - inhalation Skin Sens. — Skin sensitization

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)



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BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community **EINECS** European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances European Norms EN EPA United States Environmental Protection Agency (United States of America) ErCx,  $E\mu Cx$ , ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil Kow octanol-water partition coefficient IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform Chemical Information Database IUPACInternational Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available No-longer-Polymer NLP NOEC, NOEL No Observed Effect Concentration/Level



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OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

- ppm parts per million
- PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.