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

Revision date / version: 28.04.2020 / 0006

Replacing version dated / version: 09.10.2019 / 0005

Valid from: 28.04.2020 PDF print date: 29.04.2020 Membrane Adhesive K 290 ml

Art.: 9081355

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

Membrane Adhesive K 290 ml

Art.: 9081355

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

Relevant identified uses of the substance or mixture:

Seam sealant

Sector of use [SU]:

SU 0 - Other

SU 1 - Agriculture, forestry, fishery

SU19 - Building and construction work

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 1 - Adhesives, sealants

Process category [PROC]:

PROC19 - Manual activities involving hand contact

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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)





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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)

EUH208-Contains Dioctylbis(pentane-2,4-dionato-O,O')tin, N-(3-(trimethoxysilyl)propyl)ethylenediamine, N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine. May produce an allergic reaction. EUH210-Safety data sheet available on request.

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

3.2 Mature	
Trimethoxyvinylsilane	
Registration number (REACH)	01-2119513215-52-XXXX
Index	
EINECS, ELINCS, NLP	220-449-8
CAS	2768-02-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP)	Acute Tox. 4, H332

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.

SECTION 4: First aid measures

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

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact





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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

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

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.

The following may occur:

Allergic reaction

4.3 Indication of any immediate medical attention and special treatment needed

n.c

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

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





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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

Ensure good ventilation.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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.

Protect against moisture and store closed.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

© Chemical Name	Diisononyl ph	thalate				Content %:
WEL-TWA: 5 mg/m3		WEL-STEL:				
Monitoring procedures:	-					
BMGV:				Other information	:	
© Chemical Name	Calcium carbo	onate				Content %:
WEL-TWA: 4 mg/m3 (res	pirable dust),	WEL-STEL:				
10 mg/m3 (total inhalable du	ist)					
Monitoring procedures:	-					
BMGV:				Other information	:	
® 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:	- (Compur - KITA-	-119 SA (5	(49 640)		
	- (Compur - KITA-	-119 U (54	9 657)		
	- I	Draeger - Alcoho	ol 25/a Me	thanol (81 01 631)		
	I	DFG (D) (Loesu	ngsmittelg	emische 6), DFG (E	(Solve	nt mixtures
	(5) - 1998, 2002 -	- EU projec	et BC/CEN/ENTR/0	000/2002	2-16 card 65-
	- 1	1 (2004)				
	- I	Draeger - Alcoho	ol 100/a (C	CH 29 701)		
BMGV:				Other information	: Sk (\	VEL. EU)

Trimethoxyvinylsilane





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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	

Diisononyl phthalate





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Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment - soil		PNEC	30	mg/kg	
	Environment - oral (animal feed)		PNEC	150	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	15,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,4	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	366	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	51,72	mg/m3	

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

Methanol						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	154	mg/l	
	freshwater					
	Environment - marine		PNEC	15,4	mg/l	
	Environment -		PNEC	570,4	mg/kg	
	sediment, freshwater					
	Environment -		PNEC	57,04	mg/kg	
	sediment, marine					
	Environment - soil		PNEC	23,5	mg/kg	





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		1		1	
	Environment - water,		PNEC	1540	mg/l
	sporadic				
	(intermittent) release				
	Environment -		PNEC	100	mg/l
	sewage treatment				
	plant				
	Environment -		PNEC	20,8	mg/l
	freshwater				
	Environment - marine		PNEC	2,08	mg/l
	Environment -		PNEC	77	mg/kg
	sediment				
	Environment -		PNEC	7,7	mg/kg
	sediment				
Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3
Consumer	Human - inhalation	Long term, local	DNEL	50	mg/m3
		effects			
Consumer	Human - dermal	Short term,	DNEL	8	mg/kg
		systemic effects			body
					weight/d
					ay
Consumer	Human - inhalation	Short term,	DNEL	50	mg/m3
		systemic effects			
Consumer	Human - oral	Short term,	DNEL	8	mg/kg
		systemic effects			body
					weight/d
					ay
Consumer	Human - dermal	Long term,	DNEL	8	mg/kg
		systemic effects			body
					weight/d
					ay
Consumer	Human - inhalation	Long term,	DNEL	50	mg/m3
		systemic effects			
Consumer	Human - oral	Long term,	DNEL	8	mg/kg
		systemic effects			body
					weight/d
					ay
Workers / employees	Human - dermal	Short term,	DNEL	40	mg/kg
		systemic effects			body
					weight/d
					ay
Workers / employees	Human - inhalation	Short term,	DNEL	260	mg/m3
		systemic effects			
Workers / employees	Human - inhalation	Short term, local	DNEL	260	mg/m3
		effects			
Workers / employees	Human - dermal	Long term,	DNEL	40	mg/kg
		systemic effects			body
					weight/d
					ay
Workers / employees	Human - inhalation	Long term,	DNEL	260	mg/m3
		systemic effects			





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Workers / employees	Human - inhalation	Long term, local	DNEL	260	mg/m3	
		effects				

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). (11) = Inhalable fraction (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.

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. BS EN 14042.

BS 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:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective gloves made of butyl (EN 374).

Protective Neoprene® / polychloroprene gloves (EN 374).

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:





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0.4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions

The recommended maximum wearing time is 50% of breakthrough time.

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.
Colour: Black
Odour: Characteristic
Odour threshold: Not determined

pH-value: n.a. Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Flash point: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined





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Density: 1,58 g/ml
Bulk density: Not determined
Solubility(ies): Not determined
Water solubility: Insoluble
Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: 420 °C (Ignition temperature)

Decomposition temperature: Not determined

Viscosity: n.a

Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: 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

Avoid contact with strong oxidizing agents.

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).

Membrane Adhesive K	290 ml					
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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	ATE	>20	mg/l/4h			calculated
inhalation:						value,
						Vapours
Acute toxicity, by	ATE	>5	mg/l/4h			calculated
inhalation:						value, Dust





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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.

Trimethoxyvinylsilane Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
Toxicity / effect	_	value	Unit	Organism	1 est method	Notes
A syste towicity, by and	LD50	7120	ma/lra	Rat	OECD 401 (Acute	
Acute toxicity, by oral	LD30	/120	mg/kg	Kat	`	
route:	I D50	2200	//	D 11.4	Oral Toxicity)	
Acute toxicity, by	LD50	3200	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:	7.5.70	2==2	//1		Dermal Toxicity)	
Acute toxicity, by	LD50	2773	ppm/4h	Rat	OECD 403 (Acute	Aerosol
inhalation:					Inhalation	
					Toxicity)	
Acute toxicity, by	LC50	16,8	mg/l/4h	Rat	OECD 403 (Acute	Vapours
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Slightly
					Dermal	irritant
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
_					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:				1 0	Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471	Negative
Č ,					(Bacterial Reverse	
					Mutation Test)	
Germ cell mutagenicity:					OECD 476 (In	Negative
,					Vitro Mammalian	
					Cell Gene	
					Mutation Test)	
Carcinogenicity:						Negative





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Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	10	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	Vapours
Symptoms:					y	drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances

Diisononyl phthalate						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>10000	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	>3160	mg/kg	Rabbit		
dermal route:						
Acute toxicity, by	LC50	>4,4	mg/l/4h	Rat	Limit-Test	Aerosol
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	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	Regulation (EC)	No (skin
sensitisation:					440/2008 B.6	contact)
					(SKIN	
					SENSITISATION)	
Germ cell mutagenicity:					(Ames-Test)	Negative
Symptoms:						diarrhoea,
						nausea and
						vomiting.





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Calcium carbonate						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 420 (Acute	
route:					Oral toxicity -	
					Fixe Dose	
					Procedure)	
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:	LD30	/2000	mg/kg	Rat	Dermal Toxicity)	
Acute toxicity, by	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute	
inhalation:	LC30	/3	111g/1/411	Rat	Inhalation	
illiatation.						
C1-:				D -1-1-14	Toxicity)	Not irritant
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	
Germ cell mutagenicity:					OECD 471	Negative
cerm cen management,					(Bacterial Reverse	Troguerro
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In	Negative
Germ cen mutagementy.					Vitro Mammalian	ricgative
					Chromosome	
					Aberration Test)	
Come call musta caminitus					OECD 476 (In	Magativa
Germ cell mutagenicity:					Vitro Mammalian	Negative
					Cell Gene	
					Mutation Test)	
Carcinogenicity:						No
						indications
						of such an
		100				effect.
Reproductive toxicity:	NOEL	1000	mg/kg	Rat	OECD 422	
			bw/d		(Combined	
					Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Specific target organ					<i>g</i> ,	No
toxicity - single						indications
exposure (STOT-SE):						of such an
r 000010 (0101 01).						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	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	ATE	300	mg/kg	Human		Experiences
route:				being		on persons.
Acute toxicity, by	LD50	17100	mg/kg	Rabbit		Does not
dermal route:						conform
						with EU
						classification
Acute toxicity, by	LC50	85	mg/l/4h	Rat		Not relevant
inhalation:						for
						classification
						., Vapours
Serious eye				Rabbit	OECD 405 (Acute	Mild irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
l					Micronucleus	
					Test)	





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Carcinogenicity:	Mouse OECD 4	Negative
	(Combin	ned
	Chronic	
	Toxicity	/Carcinoge
	nicity S	tudies)
Symptoms:		abdominal
		pain,
		vomiting,
		headaches,
		gastrointestin
		al
		disturbances,
		drowsiness,
		visual
		disturbances,
		watering
		eyes,
		nausea,
		mental
		confusion

SECTION 12: Ecological information

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

Membrane Adhesi	ve K 290 ml						
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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:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Other							n.d.a.
adverse effects:							





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Other information:			DOC-
			elimination
			degree(comp
			lexing
			organic
			substance)>=
			80%/28d:
			n.a.
Other information:			According
			to the recipe,
			contains no
			AOX.

Trimethoxyvinylsil	lane						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	191	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity 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	48h	169	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	72h	>957	mg/l	Scenedesmus		88/302/EC
algae:	EL				subspicatus		
12.1. Toxicity to	EC50	72h	>100	mg/l	Selenastrum	OECD 201	
algae:					capricornutum	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	51	%		OECD 301 F	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
10.5 D 1: 6						Test)	N DDT
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance





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Toxicity to	EC50	3h	>2500	mg/l	activated	OECD 209
bacteria:					sludge	(Activated
						Sludge,
						Respiration
						Inhibition
						Test (Carbon
						and
						Ammonium
						Oxidation))

Diisononyl phthala Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>102	mg/l	Brachydanio	92/69/EC	Notes
•	LC30	9011	>102	IIIg/I	rerio	92/09/EC	
fish: 12.1. Toxicity to	EC50	48h	>=74	mg/l		84/449/EEC	
•	ECSU	4611	>=/4	IIIg/I	Daphnia	C.2	
daphnia: 12.1. Toxicity to	NOEC/NO	21d	> 100	/1	magna Daphnia	OECD 202	
	NOEC/NO EL	210	>=100	mg/l			
daphnia:	EL				magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
10.1 T	NOEGNO	701	00	/1	Scenedesmus	n Test)	
12.1. Toxicity to	NOEC/NO	72h	88	mg/l			
algae:	EL	72h	. 00	/1	subspicatus Scenedesmus	04/440/EEC	
12.1. Toxicity to	EC50	/2n	>88	mg/l		84/449/EEC	
algae:		20.1	0.1	0/	subspicatus	C.3	D 121
12.2. Persistence		28d	81	%	activated	Regulation	Readily
and degradability:					sludge	(EC)	biodegradab
						440/2008 C.4-	e
						C	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD	
						ABILITY -	
						CO2	
						EVOLUTION	
						TEST)	
12.3.	Log Kow		8,8-			OECD 117	Analogous
Bioaccumulative			9,7			(Partition	conclusion
potential:						Coefficient (n-	
						octanol/water)	
						- HPLC	
						method)	
12.3.	BCF	14d	<3				Analogous
Bioaccumulative							conclusion
potential:							
12.4. Mobility in	Koc		>5000				
soil:							
12.4. Mobility in	H (Henry)		0,000	atm*m			
soil:			00149	3/mol			





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Toxicity to	EC50	30min	>83,9	mg/l	activated	OECD 209
bacteria:					sludge	(Activated
						Sludge,
						Respiration
						Inhibition
						Test (Carbon
						and
						Ammonium
						Oxidation))
Other organisms:	NOEC/NO	56d	>982,	mg/kg	Eisenia	
	EL		4		foetida	
Other organisms:	LC50	14d	>7372	mg/kg	Eisenia	OECD 207
					foetida	(Earthworm,
						Acute
						Toxicity
						Tests)

Calcium carbonate								
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.	





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12.5. Results of PBT and vPvB							No PBT substance,
assessment							No vPvB
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge,	substance
						Respiration Inhibition Test (Carbon and	
						Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/NO EL	3h	1000	mg/l	activated sludge	OECD 209 (Activated	
						Sludge, Respiration Inhibition Test (Carbon	
						and Ammonium Oxidation))	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	EC50	14d	>1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	





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	11050110	444	1000		-	0707 407	
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	
				dw		(Soil	
						Microorganis	
						ms - Nitrogen	
						Transformatio	
						n Test)	
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
Other information:	Log Pow		-0,77				
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
12.1. Toxicity to	LC50	96h	15400	mg/l	Lepomis		
fish:					macrochirus		
12.1. Toxicity to	EC50	96h	18260	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	96h	22000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	99	%		OECD 301 D	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	BCF		28400		Chlorella		Not to be
Bioaccumulative					vulgaris		expected
potential:							





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Toxicity to	IC50	3h	>1000	mg/l	activated	OECD 209
bacteria:					sludge	(Activated
						Sludge,
						Respiration
						Inhibition
						Test (Carbon
						and
						Ammonium
						Oxidation))
Other information:	DOC		<70	%		
Other information:	BOD		>60	%		

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 09 waste adhesives and sealants containing organic solvents or other hazardous substances

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.

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.





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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 MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

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.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity
	substances		(tonnes) for the	(tonnes) for the
			application of -	application of -
			Lower-tier	Upper-tier
			requirements	requirements
22	Methanol		500	5000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 2,44 %

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.

H332 Harmful if inhaled.





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Flam. Liq. — Flammable liquid

Acute Tox. — Acute toxicity - inhalation

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)

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)

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

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

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

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

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable





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n.av. not availablen.c. not checkedn.d.a. no data available

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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt 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.