

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.06.2018 / 0002

Revision date / version: 4.08.2017 / 0001 Replacing version dated / version: 14.08.2017 / 0001 Valid from: 05.06.2018 PDF print date: 20.06.2018 Marine Sealant 2K MS-3000/60 V2 - Komp. A

Art.-Nr 3039

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

Marine Sealant 2K MS-3000/60 V2 - Komp. A Art.-Nr 3039

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

Relevant identified uses of the substance or mixture:

Adhesive Sector of use [SU]: SU2: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against: No information available at present

1.3 Details of the supplier of the safety data sheet

(GB)

Pantera Product GmbH, Südring 22, 21465 Wentorf b. Hamburg, Germany Phone:+49 (0) 40 72911000, Fax:+49 (0) 40 72911009

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

49 551 19240 (D-37075, Göttingen, 24 hour)

Telephone number of the company in case of emergencies:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard category Hazard statement

Eye Irrit. H319-Causes serious eye irritation. H317-May cause an allergic skin reaction. Skin Sens. Aquatic H412-Harmful to aquatic life with long lasting

2.2 Label elements

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



Warning

H319-Causes serious eye irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects

P261-Avoid breathing vapours. P280-Wear protective gloves and eye protection / face protection. P314-Get medical advice / attention if you feel unwell.

N-(3-(trimethoxysilyI)propyI)ethylenediamine

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

OIZ IMIXTUIO	
Trimethoxyvinylsilane	
Registration number (REACH)	01-2119513215-52-XXXX
Index	
EINECS, ELINCS, NLP	220-449-8
CAS	2768-02-7
content %	1-10
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP)	Acute Tox. 4, H332
N-(3-(trimethoxysilyl)propyl)ethylenediamine	

Registration number (REACH)	***
Index	
EINECS, ELINCS, NLP	217-164-6
CAS	1760-24-3
content %	1-2,5
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP)	Eye Dam. 1, H318
	Acute Tox. 4, H332
	Aquatic Chronic 2, H411

3-(trimethoxysilyl)propylamine	
Registration number (REACH)	01-2119510159-45-XXXX
Index	
EINECS, ELINCS, NLP	237-511-5
CAS	13822-56-5
content %	1-2,5
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP)	Eve Dam 1 H318

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate	
Registration number (REACH)	01-2119978231-37-XXXX
Index	
EINECS, ELINCS, NLP	264-513-3
CAS	63843-89-0
content %	0,01-0,1
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	STOT RE 1, H372
	Aquatic Chronic 1 H410 (M-10)

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.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Unsuitable cleaning product: Solvent

Eye contact

Remove contact lenses.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powder

Water jet spray

Large fire: Water jet spray / alcohol resistant foam

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture In case of fire the following can develop Oxides of carbon

Oxides of nitrogen

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

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. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, dia dispose of according to Section 13. ous earth, sawdust) and

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

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



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Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

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

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells.

Store cool.
Store in a dry place

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The methanol listed below can arise upon contact with water.

%:
olvent mixtures
002-16 card 65-
Sk (WEL, EU)
C

®	Chemical Name	Calcium c	arbonate			Content %:
	L-TWA: 4 mg/m3 (respir		WEL-STEL:			
10 i	mg/m3 (total inhalable dus	t)				
Moi	nitoring procedures:					
BM	GV:			Other information	n:	

(B) 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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | 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, (8) = Innalable 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.

8.2 Exposure controls

Trimethoxyvinylsilan Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
Area or application	Environmental	health	ptor	e	Onne	11010
	compartment	neam	ptoi	-		
	Environment -		PNEC	0.34	mg/l	
	freshwater		TIVEC	0,54	1119/1	
	Environment -		PNEC	0.03	mg/l	
	marine		TIVEC	4	1119/1	
	Environment -		PNEC	3.4	mg/l	
	water, sporadic		TIVEC	3,4	1119/1	
	(intermittent) release					
	Environment -		PNEC	110	mg/l	
	sewage treatment		11420	110	mg/i	
	plant					
	Environment -		PNEC	0.27	mg/kg	
	sediment, freshwater			0,2.	g/g	
	Environment -		PNEC	0.12	mg/kg	
	sediment, marine			-,	55	
	Environment - soil		PNEC	0.04	mg/kg	
				6	5 5	
Consumer	Human - dermal	Short term,	DNEL	26,9	mg/kg	
		systemic effects			bw/day	
Consumer	Human - inhalation	Short term,	DNEL	93,4	mg/m3	
		systemic effects			-	
Consumer	Human - dermal	Long term,	DNEL	0,3	mg/kg	
		systemic effects			bw/day	
Consumer	Human - inhalation	Long term,	DNEL	1,04	mg/m3	
		systemic effects				
Consumer	Human - oral	Long term,	DNEL	0,3	mg/kg	
		systemic effects			bw/day	
Workers /	Human - dermal	Short term,	DNEL	0,69	mg/kg	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Short term,	DNEL	4,9	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Long term,	DNEL	0,69	mg/kg	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Long term,	DNEL	4,9	mg/kg	
employees		systemic effects				

N-(3-(trimethoxysilyl)	propyl)ethylenediamine					
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e		
	compartment		-			
	Environment -		PNEC	0,06	mg/l	
	freshwater			2	_	
		•	•			

	Environment -		PNEC	0,00	mg/m3	
	marine			62	_	
	Environment -		DNEL	0,62	mg/l	
	sporadic					
	(intermittent) release					
Consumer	Human - oral	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	35,5	mg/m3	
Workers /	Human - dermal	Long term,	DNEL	5	mg/kg	
employees		systemic effects			bw/day	

3-(trimethoxysilyl)pro							
Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note	
	compartment						
	Environment -		PNEC	0,33	mg/l		
	freshwater						
	Environment -		PNEC	0,03	mg/l		
	marine			3			
	Environment - water, sporadic (intermittent) release		PNEC	3,3	mg/l		
	Environment - sediment, freshwater		PNEC	1,2	mg/kg dry weight		
	Environment - sediment, marine		PNEC	0,12	mg/kg dry weight		
	Environment - soil		PNEC	0,04 5	mg/kg dry weight		
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17	mg/m3		
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/day		
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/day		
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	58	mg/m3		
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d		

	ethyl-4-piperidyl) [[3,5-bi	s(1,1-dimethylethyl)	-4-			
hydroxyphenyl]methy						
Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment	licaitii	pioi	-		
	Environment - freshwater		PNEC	0	mg/l	
	Environment - marine		PNEC	0	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,61	mg/l	
	Environment - sediment, freshwater		PNEC	504, 4	mg/kg dry weight	
	Environment - sediment, marine		PNEC	50,4 4	mg/kg dry weight	
	Environment - soil		PNEC	1	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,01	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,03 3	mg/kg body weight/ day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,00 3	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,07	mg/kg bw/day	

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	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	57,0 4	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	154 0	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - freshwater		PNEC	20,8	mg/l	
	Environment - marine		PNEC	2,08	mg/l	
	Environment - sediment		PNEC	77	mg/kg	
	Environment - sediment		PNEC	7,7	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	50	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/ day	



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m3
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Calcium carbonate						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e		
	compartment					
	Environment -		PNEC	100	mg/l	
	sewage treatment					
	plant					
Consumer	Human - inhalation	Long term,	DNEL	10	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term,	DNEL	1,06	mg/m3	
		local effects				
Workers /	Human - inhalation	Long term,	DNEL	10	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	4,26	mg/m3	
employees		local effects	1	I	I	

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).
Recommended

Protective nitrile gloves (EN 374) Minimum layer thickness in mm:

>= 0,35 Permeation time (penetration time) in minutes:

= 120

>= 120
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Pastelike, Liquid Physical state Colour: White Odour: Odour threshold: Not determined Not determined pri-value:
Melting point/freezing point:
Initial boiling point and boiling range:
Flash point:
Evaporation rate:
Flammability (Cont.) Not determined Not determined 63 °C Not determined Flammability (solid, gas): Not determined Lower explosive limit Not determined Upper explosive limit: Not determined Vapour pressure:
Vapour density (air = 1):
Density:
Bulk density: Not determined Not determined Not determined 1,43 g/cm3 (20°C) n.a. Not determined Solubility(ies): Water solubility:
Partition coefficient (n-octanol/water):
Auto-ignition temperature:
Decomposition temperature: Insoluble Not determined n.a. Not determined 39600 mPas (25°C) Viscosity: Explosive properties: Product is not explosive.

9.2 Other information

Oxidising properties:

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

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

In case of contact with water Methanol

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			Vapours, calculated value
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	3200	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	2773	ppm/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation:	LC50	16,8	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
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)	Not sensitizisir g



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Germ cell			T		OECD 471	Negative
mutagenicity:					(Bacterial	
1 3 ,					Reverse	
					Mutation Test)	
Carcinogenicity:						Negative
Reproductive toxicity:	NOAE	1000	mg/k	Rat	OECD 422	Negative
	L		g		(Combined	
					Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/De	
					velopm. Tox.	
	NOAE	0.050			Screening Test)	
Specific target organ	NOAE C	0,058		Rat	OECD 413	
toxicity - repeated exposure (STOT-RE):	-				(Subchronic Inhalation	
exposure (STOT-RE):						
					Toxicity - 90-Day Study)	
Specific target organ	NOAE	10	mg/l	Rat	OECD 422	Vapours
toxicity - repeated	INOAL	10	ilig/i	ivai	(Combined	vapours
exposure (STOT-RE):	-				Repeated Dose	
(0.10.112).					Tox. Study with	
					the	
					Reproduction/De	
					velopm. Tox.	
					Screening Test)	
Symptoms:						drowsiness
						, dizziness,
						nausea,
						abdominal
						pain,
						breathing
						difficulties,
						visual
						disturbance
						S

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	2413	mg/k g	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LC50	1,49- 2,44	mg/l/ 4h			Aerosol
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)	Eye Dam.
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Sensitising (skin contact)
Symptoms:						respiratory distress, abdominal pain, unconscious sness, vomiting, coughing, headachet mucous membrane irritation, dizziness

3-(trimethoxysilyl)prop Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>10000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mammali an	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion

Reproductive toxicity:	NOAE	100	mg/k			Analogous conclusion
Reproductive toxicity:	NOAE L	200	mg/k g	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	CONCIUSION
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAE L	600	mg/k g	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	200	mg/k g		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Analogous conclusion

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	1490	mg/k	Rat		
route:			g			
Acute toxicity, by	LD50	>3170	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Skin					*	Not irritan
corrosion/irritation:						
Serious eye						Not irritan
damage/irritation:						
Respiratory or skin						Not
sensitisation:						sensitizisi
			1			g

						y
Methanol Toxicity / effect	Endpo	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/k g	Human being		Experience s on persons.
Acute toxicity, by dermal route:	LD50	17100	mg/k g	Rabbit		Does not conform with EU classificatio n.
Acute toxicity, by inhalation:	LC50	85	mg/l/ 4h	Rat		Not relevant for classificatio n., Vapours
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizisin g
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						abdominal pain, vomiting, headaches, gastrointes tinal disturbance s, drowsiness , visual disturbance s, watering eyes, nausea, mental confusion

Calcium carbonate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	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)	Not sensitizisir g
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



substance, No vPvB substance

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Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/k g bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):					<u> </u>	No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.
Aspiration hazard:						No
Symptoms:						No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	1000	mg/k g bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	0,212	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	

SECTION 12: Ecological information

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

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	e			method	
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2.							n.d.a.
Persistence and degradability:							
12.3.							n.d.a.
Bioaccumulative potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.

Trimethoxyvinylsi Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
TOXICITY / CITCOL	t .	е	e	Onne	Organism	method	110103
12.1. Toxicity to	LC50	96h	>=1	mg/l	Brachydanio		
fish:			00		rerio		
12.1. Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	168, 7	mg/l	Daphnia magna	Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILIS ATION TEST)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	>95 7	mg/l	Scenedesm us subspicatus	- ,	88/302/EC
12.1. Toxicity to algae:	IC50	72h	>10 0	mg/l	Selenastrum capricornut um		
12.1. Toxicity to algae:	EC50	72h	>95 7	mg/l	Scenedesm us subspicatus		
12.2. Persistence and degradability:		28d			·	OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)	Readily biodegrad ble
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
Toxicity to bacteria:	EC50		>25 00	mg/l	activated sludge		

Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	597	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	LC50	96h	168	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	72h	87,4	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	126	mg/l	Scenedesm us		
12.1. Toxicity to algae:	NOEC/N OEL	72h	20	mg/l	subspicatus Scenedesm us		
12.2.	OEL				subspicatus		Niet er edib
Persistence and degradability:							Not readily biodegrada ble
Toxicity to bacteria:	EC10	16h	25	mg/l	Pseudomon as putida	DIN 38412 T.8	
Toxicity to bacteria:	EC50		435	mg/l	activated sludge		
3-(trimethoxysilyl)nronvlamine						
Toxicity / effect	Endpoin	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>93 4	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	331	mg/l	Daphnia magna	OEĆD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>10 00	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	67	%		Regulation (EC) 440/2008 C.4-A (DETERMIN ATION OF 'READY' BIODEGRA DABILITY - DOC DIE- AWAY TEST)	Not readily biodegrada ble, Analogous conclusion
12.2. Persistence and degradability:		28d	67	%		OECD 301 A (Ready Biodegradab ility - DOC Die-Away Test)	Analogous conclusion
12.3. Bioaccumulative potential:							No
12.4. Mobility in soil:							Slight
12.5. Results of PBT and vPvB							No PBT substance,

	t i	P P	P .			method	
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
Methanol							
						Test)	
						Evolution	
						ility - Co2	
degradability:						Biodegradab	
Persistence and						B (Ready	
12.2.		28d	1-2	%	zzzpioatao	OECD 301	
					subspicatus		
algae:				g, .	us		
12.1. Toxicity to	EC50	72h	61	mg/l	Scenedesm		
daphnia:	OFL			L9''	magna		
12.1. Toxicity to	LOEC/L	21d	6,4	μg/l	Daphnia		
						Test)	
			~			Toxicity	
fish:	2000	5511	0	9/1	rerio	(Fish, Acute	
12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	OECD 203	
	t	e	e	J	0.90.110111	method	
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
hydroxyphenyl]m			0,0 013(1	, r unitetii	yichiyi) 4		
Bis(1,2,2,6,6-pent	amethyl-4-nin	eridyl) [[3 5-his/1	1-dimeth	vlethvl\-4-		
							5,75 N
bacteria:					as putida		5.75 h
Toxicity to	EC50		43	mg/l	Pseudomon		Analogous
-	5050		- 10				5,75 h
bacteria:					as putida		conclusion
Toxicity to	EC10		13	mg/l	Pseudomon		Analogous
bacteria:			0		sludge		

mg/l

13

PBT and vPvB assessment

EC50

Toxicity to

bacteria: Toxicity to bacteria:

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to fish:	LC50	96h	154 00	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	>10 000	mg/l	Daphnia magna		
12.2. Persistence and degradability:		28d	99	%		OECD 301 D (Ready Biodegradab ility - Closed Bottle Test)	Readily biodegra ble
12.3. Bioaccumulative potential:	BCF		284 00		Chlorella vulgaris	·	
Other information:	DOC		<70	%			
Other information:	BOD		>60	%			

	Calcium carbonate	9						
ſ	Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
		t	е	е			method	



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12.1. Toxicity to fish:	LC50	96h			Oncorhynch us 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 Immobilisati on Test)	No observation with saturated solution of test material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not relevant for inorganic substance
12.3. Bioaccumulative							Not to be expected
potential: 12.4. Mobility in							n.a.
soil: 12.5. Results of							No PBT
PBT and vPvB assessment							substance No vPvB substance
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/N OEL	3h	100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth	Lycopersi on esculentu
Other organisms:	EC50	21d	>10 00	mg/k g dw		Test) OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/N OEL	21d	100	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersi on esculentu
Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	EC50	14d	>10 00	mg/k g dw	Eisenia foetida	OEĆD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	NOEC/N OEL	14d	100	mg/k g dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	EC50	28d	>10 00	mg/k g dw		OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)	

	,						
	organisms:	NOEC/N OEL	28d	100	mg/k g dw	OECD 2' (Soil Microorg: ms - Nitrogen Transforr on Test)	nati
Water	solubility:			0,01 66	g/l	OECD 10 (Water Solubility	

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)

80 40 90 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation:

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 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

n.a

Transport by road/by rail (ADR/RID)
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Classification and or n.a. n.a. n.a. Classification code:

LQ: 14.5. Environmental hazards: Tunnel restriction code: Not applicable

Transport by sea (IMDG-code)
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Marine Pollutant: n.a. n.a.

14.5 Environmental hazards Not applicable

Transport by air (IATA)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: n.a. 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)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 2.35 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with	Evaluation method used
regulation (EC) No. 1272/2008 (CLP)	
Eye Irrit. 2, H319	Classification according to calculation
	procedure.
Skin Sens. 1, H317	Classification according to calculation
	procedure.
Aquatic Chronic 3, H412	Classification according to calculation
	procedure.

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. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H332 Harmful if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic



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Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - inhalation Eye Dam. — Serious eye damage Skin Irrit. — Skin irritation Acute Tox. - Acute toxicity - oral

STOT RE — Specific target organ toxicity - repeated exposure

Any abbreviations and acronyms used in this document:

Article Categories

acc., acc. to according, according to
ACGIH American Conference of Governmental Industrial Hygienists

Accord européen relaiff au transport international des marchandises Dangereuses par Route (= Agreement concerning the International Carriage of Dangerous Goods by Road)
Acceptable Operator Exposure Level
Adsorbable organic halogen compounds

ADR European AOEL AOX

approx. approximately
Art., Art. no.Article number
ATE Acute Toxicity
BAM Bundesanstalt

Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

Testing, Germany)
BAuA Bundes

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF

Bioconcentration factor

BGV

Boconcentration ractor

Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

Biological monitoring guidance value (EH40, UK) BOD BSEF Biochemical oxygen demand Bromine Science and Environmental Forum

bw CAS

body weight Chemical Abstracts Service

Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants

and Other CESIO

luids Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC

Collaborative International Pesticides Analytical Council
Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, dapackaging of substances and mixtures)
carcinogenic, mutagenic, reproductive toxic
Chemical oxygen demand
Cosmetic, Toiletry, and Fragrance Association
Derived Minimum Effect Level CLP labelling ar CMR COD CTFA

DMEL DNEL Derived No Effect Level

DOC DT50 DVS Derived NO Effect Level
Dissolved organic carbon
Dwell Time - 50% reduction of start concentration
Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for

Welding and Allied Processes) dw

dry weight dry weight for example (abbreviation of Latin 'exempli gratia'), for instance European Community European Chemicals Agency

e.g. EC ECHA EEA EEC European Economic Area European Economic Community

European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
European Norms
United States Environmental Protection Agency (United States of America) **EINECS**

ELINCS EN EPA

ERC **Environmental Release Categories**

ES Exposure scenario

etc. EU EWC European Union European Waste Catalogue Fax number Fax.

gen. GHS

general
Globally Harmonized System of Classification and Labelling of Chemicals

GWP HET-CAM HGWP Global warming potential

Hen's Egg Test - Chorionallantoic Membrane
Halocarbon Global Warming Potential International Agency for Research on Cancer International Air Transport Association IARC IATA IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods

including, inclusive International Uniform ChemicaL Information Database incl. IUCLID

LC50

lethal concentration lethal concentration 50 percent kill lowest published lethal concentration Lethal Dose of a chemical LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low LOAFL

Letnal Dose Low Lowest Observed Adverse Effect Level Lowest Observed Effect Concentration Lowest Observed Effect Level Limited Quantities LOEC

LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. n.av. n.c. n.d.a. NIOSH not applicable not checked no data available

National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration No Observed Adverse Effect Level NOAEL

NOEC NOEL ODP OECD No Observed Effect Concentration
No Observed Effect Concentration
Ocone Depletion Potential
Organisation for Economic Co-operation and Development

org. PAH

Organic organic polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic Chemical product category PBT PC PE Polyethylene Predicted No Effect Concentration PNEC POCP Photochemical ozone creation potential

ppm PROC parts per million Process category
Polytetrafluorethylene 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)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

Tel. ThOD Telephone Theoretical oxygen demand

TOC Total organic carbon

TRGS UN RTDG VbF VOC Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
United Nations Recommendations on the Transport of Dangerous Goods
Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

Volatile organic compounds

VOCU Volatile organic compounds
VPVB very persistent and very bioaccumulative
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA
(= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure
limit (15-minute reference period) (EH40, UK).
WHO World Health Organization

wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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