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

BONDTEC STP 70 Power

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

Relevant identified uses of the substance or mixture:

Adhesive

Assembly material

Uses advised against:

No information available at present

1.3 Details of the supplier of the safety data sheet

Fola Abfülltechnik GmbH Industriestraße 55 D-40822 Mettmann Tel.: +49 2104 28680-10 Fax: +49 2104 28680-20 www.fola-abfuelltechnik.de

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

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 (WIC) +1 872 5888271 (WIC)

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

H319-Causes serious eye irritation. Eye Irrit.

2.2 Label elements

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



Warning

H319-Causes serious eye irritation

P280-Wear eye protection.
P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction

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 Mixtur<u>es</u>

J.Z WIALUIES	
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 %	1-5
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP), M-factors	Acute Tox. 4, H332
	Skin Sens. 1B. H317

3-(trimethoxysilyl)propylamine	
Registration number (REACH)	01-2119510159-45-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	237-511-5
CAS	13822-56-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	Eye Dam. 1, H318

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

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

Thinners

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 de

Oxides of carbon

Oxides of sulphur

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.

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

6.1.1 For non-emergency personnelIn 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.

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.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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.
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, diatomaceou dispose of according to Section 13. us 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

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.

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 incompatibilitiesKeep 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)
No information available at pres

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The methanol listed below can arise upon contact with water. ® **Chemical Name**

Calcium carbonate

Content

GB Page 2 of 7							Consumer	Human - oral	Long term,	DNEL	0,1	mg/kg	
Revision date / version			x II				Consumer	Human - inhalation	systemic effects Short term,	DNEL	93,4	bw/day mg/m3	
Valid from: 01.11.202		/ 0004					Workers /	Human - dermal	systemic effects Long term,	DNEL	0,2	mg/kg	
PDF print date: 01.11 BONDTEC STP 70 Po							employees Workers /	Human - inhalation	systemic effects Long term,	DNEL	2,6	bw/day mg/m3	
WEL-TWA: 4 mg/m		VEL-STEL:					employees Workers /	Human - inhalation	systemic effects Short term,	DNEL	4,9	mg/m3	
10 mg/m3 (total inhala	able dust)	VLL-31LL					employees	Tiuman - iimalation	systemic effects	DIVLE	4,3	Ilig/ilis	
Monitoring procedures BMGV:	S:		Other i	nformatio	n:		0 (1-1						
(B) Chemical Nam	e Silica, amorph	ous				Content	3-(trimethoxysilyl)pro Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
WEL-TWA: 6 mg/m		VEL-STEL:				%:		Environmental compartment	health	ptor	е		
2,4 mg/m3 (resp. dust Monitoring procedures								Environment - freshwater		PNEC	0,33	mg/l	
BMGV:			Other i	nformatio	n:			Environment - marine		PNEC	0,03	mg/l	
GB Chemical Nam						Content %:		Environment - water, sporadic		PNEC	3,3	mg/l	
WEL-TWA: 200 ppr (WEL), 200 ppm (260		VEL-STEL: 250 ppr WEL)	n (333 mg/r	m3				(intermittent) release		DNEO	10		
Monitoring procedures	s: - Dra	eger - Alcohol 25/a N npur - KITA-119 SA (1 01 631)				Environment - sediment, freshwater		PNEC	1,2	mg/kg dry	
	- Cor	mpur - KITA-119 U (5 G Meth. Nr. 6 (D) (Lo	49 657)	laomicoh	o 6) DEC	(E)		Environment -		PNEC	0,12	weight mg/kg	
	(So	Ivent mixtures 6) - 20	13, 2002 - I	EŪ projec	t	(L)		sediment, marine				dry weight	
	- NIC	CEN/ENTR/000/2003 OSH 2000 (METHAN)	DL) - 1998	,	•			Environment - soil		PNEC	0,04 5	mg/kg dry	
	- (SC	OSH 2549 (VOLATILE CREENING)) - 1996						Environment -		PNEC	13	weight mg/l	
		OSH 3800 (ÖRGANIC TRACTIVE FTIR SPE						sewage treatment		FINEC	13	ilig/i	
BMGV:	- Dra	eger - Alcohol 100/a			n: Sk (WI	EL. EU)	Consumer	plant Human - inhalation	Short term,	DNEL	17,4	mg/m3	
Billiov.			1 00.00	····o····idao	O. (***		Consumer	Human - dermal	systemic effects Short term,	DNEL	5	mg/kg	
Trimethoxyvinylsilar	ne						Consumer	Human - inhalation	systemic effects Long term,	DNEL	17	bw/day mg/m3	
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note	Consumer	Human - dermal	systemic effects Long term,	DNEL	5	mg/kg	
	Environmental compartment	health	ptor	e			Consumer	Human - oral	systemic effects Long term,	DNEL	5	bw/day mg/kg	
	Environment - freshwater		PNEC	0,4	mg/l	Für entspr	Workers /	Human - inhalation	systemic effects Short term,	DNEL	17,4	bw/day mg/m3	
						echen des	employees		systemic effects		,	_	
						Silantri ol	Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,3	mg/kg bw/day	
						(Hydro lyspro	Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	58	mg/m3	
						dukt)	Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d	
				L		ermitte It.							
	Environment - marine		PNEC	0,04	mg/l	Für entspr	Calcium carbonate Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
						echen des	Area or application	Environmental	health	ptor	e	Onit	Note
						Silantri ol		compartment Environment -		PNEC	100	mg/l	
						(Hydro lyspro		sewage treatment plant					
						dukt) ermitte	Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
	Environment -		PNEC	2.4		lt.	Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
	water, sporadic		PINEC	2,4	mg/l	entspr	Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3	
	(intermittent) release					echen des	Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day	
						Silantri ol	Workers /	Human - inhalation	Long term,	DNEL	4,26	mg/m3	
						(Hydro lyspro	employees Workers /	Human - inhalation	local effects Long term,	DNEL	10	mg/m3	
						dukt) ermitte	employees		systemic effects				
	Environment -		PNEC	6,6	mg/l	lt. Für	Methanol						
	sewage treatment			0,0	g	entspr echen	Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	piani					des		compartment Environment -		PNEC	154	mg/l	
						Silantri ol		freshwater					
						(Hydro lyspro		Environment - marine		PNEC	15,4	mg/l	
						dukt) ermitte		Environment - sediment, freshwater		PNEC	570, 4	mg/kg	
	Environment -		PNEC	1,5	mg/kg	lt. Für		Environment - sediment, marine		PNEC	57,0 4	mg/kg	
	sediment, freshwater			"	dw	entspr echen		Environment - soil Environment -		PNEC PNEC	23,5 154	mg/kg mg/l	
						des Silantri		water, sporadic (intermittent) release			0		
						ol		Environment - sewage treatment		PNEC	100	mg/l	
						(Hydro lyspro	Congress	plant	Long to re-	DNEL		m =1	
						dukt) ermitte	Consumer	Human - inhalation	Long term, local effects		50	mg/m3	<u> </u>
	Environment -		PNEC	0,15	mg/kg	lt. Für	Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3	
	sediment, marine				dw	entspr echen	Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body	
						des Silantri						weight/ day	
						ol (Hydro	Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m3	
						lyspro	Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body	
						dukt) ermitte						weight/	
	Environment - soil		PNEC	0,06	mg/kg	lt. Für	Consumer	Human - dermal	Long term,	DNEL	8	mg/kg	
					dw	entspr echen			systemic effects			body weight/	
						des Silantri	Consumer	Human - inhalation	Long term,	DNEL	50	day mg/m3	<u> </u>
						ol (Hydro	Consumer	Human - oral	systemic effects Long term,	DNEL	8	mg/kg	-
						lyspro			systemic effects			body weight/	
						dukt) ermitte	Workers /	Human - dermal	Short term,	DNEL	40	day	
Consumer	Human - dermal	Short term,	DNEL	0,1	mg/kg	lt.	employees	riuman - deiffidi	systemic effects	DINCL	40	mg/kg body	
Consumer	Human - dermal	systemic effects Long term,	DNEL	0,1	bw/day mg/kg		West, /	Human 11111	Observe	BY:E:		weight/ day	
Consumer	Human - inhalation	systemic effects Long term,	DNEL	0,7	bw/day mg/m3		Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3	<u></u>
		systemic effects		Ι.			Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3	L

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0005
Replacing version dated / version: 17.03.2021 / 0004
Valid from: 01.11.2021
PDF print date: 01.11.2021
BONDTEC STP 70 Power

Workers /	Human - dermal	Long term,	DNEL	40	mg/kg	
employees		systemic effects			body	
					weight/	
					day	
Workers /	Human - inhalation	Long term,	DNEL	260	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	260	mg/m3	
employees		local 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 Cdg reatinie in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (6) = Innalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Respirable fraction (2017/164/EU), 2017/2398/EU). (10) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). (10) = 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. 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.

Eve/face protection:

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm = 0.35

ation time (penetration time) in minutes:

>= 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).

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.

Selection or 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 observe

8.2.3 Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Colour: Characteristic Odour:

Welting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:
Upper explosion limit:
Flather size the service of the servic Combustible.
There is no information available on this parameter.
There is no information available on this parameter.
There is no information available on this parameter.

Flash point: Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Aerosols - Chemical heat of combustion:

Oxidisina liquids: Evaporation rate: Bulk density: Molar mass:

Metal content

There is no information available on this parameter. There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

Mixture is no information available on this parameter.

There is no information available on this parameter.

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

~1,47 g/cm3 (20°C)

Does not apply to liquids.

Product is not explosive.

There is no information available on this parameter.

No

n.a. n.a. There is no information available on this parameter. There is no information available on this parameter.

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

10.4 Conditions to avoid

Strong heat

10.5 Incompatible materials

10.6 Hazardous decomposition products

See also section 5.2

In case of contact with water: Methanol

SECTION 11: Toxicological information

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

tion on health effects, see Section 2.1 (classification

Possibly more information BONDTEC STP 70 Power Endpo Value Unit Organis Test method Notes Acute toxicity, by ora route: Acute toxicity, by n.d.a dermal route: Acute toxicity, by ATE >20 mg/l/ 4h calculated value, Vapours calculated Acute toxicity, by ATE mg/l inhalation: 4h value. Aerosol n.d.a. corrosion/irritation: Serious eye damage/irritation: Respiratory or skin n.d.a OECD 429 (Skin No (skin contact) sensitisation: Local Lymph Node Assay) Expert judgement Germ cell n.d.a. Carcinogenicity:
Carcinogenicity:
Reproductive toxicity:
Specific target organ
toxicity - single
exposure (STOT-SE):
Specific target organ
toxicity - repeated n.d.a n.d.a toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms:

n.d.a

Trimethoxyvinylsilane Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
TOXICITY / effect	int	value	Unit	m	rest method	Notes
Acute toxicity, by oral	LD50	7120	mg/k	Rat	OECD 401	
route:			g		(Acute Oral	
oute.			9		Toxicity)	
Acute toxicity, by	LD50	2773	ppm/	Rat	OECD 403	Aerosol
inhalation:	LDGG	2110	4h	- rui	(Acute Inhalation	71010301
iniaidion.			7		Toxicity)	
Skin			+	Rabbit	OECD 404	Slightly
corrosion/irritation:				Nabbit	(Acute Dermal	irritant
corrosion/irrialion.					Irritation/Corrosio	IIIIdiii
				5	n)	** ** **
Serious eye				Rabbit	OECD 405	Not irritant
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea	OECD 406 (Skin	Skin Sens
sensitisation:				pig	Sensitisation)	1B
Germ cell					OECD 476 (In	Negative
mutagenicity:					Vitro	· ·
0 ,					Mammalian Cell	
					Gene Mutation	
					Test)	
Germ cell			1	Mouse	OECD 474	Negative
mutagenicity:				Wiodoc	(Mammalian	regative
ndtagenicity.					Erythrocyte	
					Micronucleus	
					Test)	
Germ cell				Salmonel	OECD 471	Negative
						ivegative
mutagenicity:				la	(Bacterial	
				typhimuri	Reverse	
				um	Mutation Test)	
Carcinogenicity:						Negative
Symptoms:						drowsines
						, dizziness
						nausea,
						abdomina
						pain.
						breathing
						difficulties
						visual
			1			disturbanc
						S
Specific target organ	NOAE	62,5	mg/k	Rat	OECD 422	Target
oxicity - repeated	L	32,3		Nat	(Combined	organ(s):
	-		g			bladder
exposure (STOT-RE),					Repeated Dose	pladder
oral:					Tox. Study with	
					the	
					Reproduction/De	
					velopm. Tox.	
					Screening Test)	
Specific target organ	NOAE	0,058	mg/l	Rat	OECD 413	Vapours
toxicity - repeated	C		1		(Subchronic	
exposure (STOT-RE),					Inhalation	
inhalat.:					Toxicity - 90-Day	
	1		1		Study)	

3-(trimethoxysilyl)propylamine							
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	
	int			m			
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	OECD 401		
route:			g		(Acute Oral		
			-		Toxicity)		

Page 4 of 7 Safety data sheet accord Revision date / version: Replacing version dated Valid from: 01.11.2021 PDF print date: 01.11.20	01.11.2021 / version: 1: 021	/ 0005		6, Annex II			Specific target organ toxicity - repeated exposure (STOT-RE) inhalat.:	NOAE C	0,212	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	
BONDTEC STP 70 Pow							Silica, amorphous Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Acute toxicity, by dermal route:	LD50	>10000	mg/k g	Rabbit	OECD 402 (Acute Dermal		Acute toxicity, by oral	int LD50	>5000	mg/k	m Rat	OECD 423	
Skin corrosion/irritation:				Rabbit	Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Skin Irrit. 2	route:			g		(Acute Oral Toxicity - Acute Toxic Class Method)	
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Dam. 1	Acute toxicity, by dermal route: Skin corrosion/irritation:	LD50	> 2000	mg/k g	Rat Rabbit	OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal	Not irritar
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)						Irritation/Corrosio	
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion	Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritar
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus	Negative, Analogous conclusion	Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell				Mammali	Test) OECD 473 (In	Negative,	Aspiration hazard:						No
mutagenicity:				an	Vitro Mammalian	Analogous conclusion	Methanol Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
					Chromosome Aberration Test)		Acute toxicity, by oral	int	300	mg/k	m Human		Experien
Germ cell mutagenicity:				Mammali an	OECD 476 (In Vitro	Negative, Analogous	route:			g	being		s on persons.
Reproductive toxicity:	NOAE	200	mg/k	Rat	Mammalian Cell Gene Mutation Test) OECD 414	conclusion	Acute toxicity, by dermal route:	LD50	17100	mg/k g	Rabbit		Does not conform with EU classifica
reproductive textony.	L	200	g	ruu	(Prenatal Developmental		A cuto tovicity by	1050	05		Dot		n.
Specific target organ toxicity - repeated exposure (STOT-RE),	NOAE L	200	mg/k g	Rat	Toxicity Study) OECD 408 (Repeated Dose 90-Day Oral	Target organ(s): liver,	Acute toxicity, by inhalation:	LC50	85	mg/l/ 4h	Rat		Not relevant for classifica
oral: Specific target organ toxicity - repeated	LOAE L	600	mg/k g	Rat	Toxicity Study in Rodents) OECD 408 (Repeated Dose	Analogous conclusion Target organ(s):	Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	n., Vapou Not irritar
exposure (STOT-RE), oral:	-				90-Day Oral Toxicity Study in	liver, Analogous	Respiratory or skin				Guinea	OECD 406 (Skin	No (skin
Specific target organ	NOAE	147	ma/m	Rat	Rodents) OECD 412	conclusion	sensitisation: Germ cell				pig Salmonel	Sensitisation) OECD 471	contact) Negative
toxicity - repeated exposure (STOT-RE), inhalat.:	C	147	mg/m 3	Nat	(Subacute Inhalation Toxicity - 28-Day	Aerosol	mutagenicity: Germ cell				la typhimuri um Mouse	(Bacterial Reverse Mutation Test) OECD 474	Negative
Calcium carbonate Toxicity / effect	Endpo	Value	Unit	Organis	Study) Test method	Notes	mutagenicity:					(Mammalian Erythrocyte Micronucleus Test)	
Acute toxicity, by oral route:	LD50	>2000	mg/k g	m Rat	OECD 420 (Acute Oral toxicity - Fixe		Carcinogenicity:				Mouse	OECD 453 (Combined Chronic Toxicity/Carcinog	Negative
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	Dose Procedure) OECD 402 (Acute Dermal Toxicity)		Reproductive toxicity:	NOAE L	1,3	mg/l	Mouse	enicity Studies) OECD 416 (Two- generation Reproduction	
Acute toxicity, by inhalation: Skin corrosion/irritation:	LC50	>3	mg/l/ 4h	Rat Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant	Specific target organ toxicity - repeated exposure (STOT-RE)	NOAE L	0,13	mg/l	Rat	Toxicity Study) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irritant	Symptoms:					enicity Studies)	abdomin pain, vomiting headach
Respiratory or skin sensitisation:				Mouse	n) OECD 429 (Skin Sensitisation - Local Lymph	No (skin contact)							gastroin tinal disturbar s,
Germ cell mutagenicity:					Node Assay) OECD 471 (Bacterial Reverse	Negative							drowsine , visual disturbar s, waterii
Germ cell mutagenicity:					Mutation Test) OECD 473 (In Vitro Mammalian	Negative							eyes, nausea, mental confusio
Germ cell					Chromosome Aberration Test) OECD 476 (In	Negative							intoxicati , dizzines
mutagenicity:					Vitro Mammalian Cell		11.2. Informatio		r hazards				
Carcinogenicity:					Gene Mutation Test)	No	Toxicity / effect	Endpo	Value	Unit	Organis m	Test method	Notes
						indications of such an effect.	Endocrine disrupting properties: Other information:						Does no apply to mixtures
Reproductive toxicity:	NOEL	1000	mg/k g bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox.		Guer monnauon.						No other relevant informat availabl on adver effects of health.
Specific target organ toxicity - single					Screening Test)	No indications		SECT	ION 12: I	Ecolog	ical infor	mation	
exposure (STOT-SE):						of such an effect.	Doseibly mara info	ation on and	onmental aff-	cte coc C	ction 2.1 (ala-	eification)	
Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.	_	ation on envi lower Endpoin t	Tim Val		Organisn		Notes
Aspiration hazard: Specific target organ	NOAE	1000	mg/k	Rat	OECD 422	No No	12.1. Toxicity to fish:						n.d.a.
toxicity - repeated exposure (STOT-RE),	L	1000	g bw/d	ndl	(Combined Repeated Dose		12.1. Toxicity to daphnia: 12.1. Toxicity to						n.d.a.
oral:					Tox. Study with the Reproduction/De velopm. Tox.		algae: 12.2. Persistence and degradability:						n.d.a.

B) Page 5 of 7 Safety data sheet a				1907/2006	6, Annex II			Toxicity to bacteria:	EC50		340 0	mg/l	activated sludge		
Revision date / vers Replacing version of	dated / versior			04				Toxicity to bacteria:	EC10		13	mg/l	Pseudomon as putida		Reference
Valid from: 01.11.20 PDF print date: 01. BONDTEC STP 70	11.2021												·		Analogou conclusio 5,75 h
12.3. Bioaccumulative							n.d.a.	Toxicity to bacteria:	EC50		43	mg/l	Pseudomon as putida		Analogou conclusio 5,75 h
potential: 12.4. Mobility in							n.d.a.	Calcium carbonat							
soil: 12.5. Results of							n.d.a.	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
PBT and vPvB assessment 12.6. Endocrine							Does not	12.1. Toxicity to fish:	LC50	96h			Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity	No observation with
disrupting properties: 12.7. Other adverse effects:							apply to mixtures. n.d.a.							Test)	saturated solution o test
Other information:							According to the	12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia	Material. No observati
Other information:							recipe, contains no AOX. DOC- elimination	чартта.					magna	sp. Acute Immobilisati on Test)	with saturated solution of test
miorination.							degree(co mplexing organic substance)	12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	material.
							80%/28d: n.a.	12.1. Toxicity to algae:	NOEC/N OEL	72h	14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth	
Trimethoxyvinylsi Toxicity / effect	lane Endpoin	Tim	Valu	Unit	Organism	Test	Notes							Inhibition Test)	
12.1. Toxicity to fish:	t LC50	e 96h	e 191	mg/l	Oncorhynch us mykiss	method OECD 203 (Fish, Acute Toxicity		12.2. Persistence and degradability:							Not relevant for inorganic
12.1. Toxicity to daphnia:	EC50	48h	169	mg/l	Daphnia	Test) OECD 202 (Daphnia		12.3.							substance Not to be
сартна.					magna	sp. Acute Immobilisati		Bioaccumulative potential:							expected
12.1. Toxicity to	NOEC/N	21d	28	mg/l	Daphnia	on Test) OECD 211		12.4. Mobility in soil:							n.a.
daphnia:	OEL				magna	(Daphnia magna Reproductio n Test)		12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
12.1. Toxicity to algae:	EC50	72h	>10 0	mg/l	Selenastrum capricornut	OECD 201 (Alga,		Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated	Substanc
12.1. Toxicity to	NOEC/N	72h	25	mg/l	um Selenastrum	Growth Inhibition Test)							, c	Sludge, Respiration Inhibition Test	
algae:	OEL	28d	51	%	capricornut um	OECD 301	Not readily							(Carbon and Ammonium	
Persistence and degradability:						F (Ready Biodegradab ility - Manometric Respirometr y Test)	biodegrada ble	Toxicity to bacteria:	NOEC/N OEL	3h	100	mg/l	activated sludge	Oxidation)) OECD 209 (Activated Sludge, Respiration Inhibition	
12.2. Persistence and degradability:		28d	51	%		OECD 301 F (Ready Biodegradab ility - Manometric	Readily biodegrada ble							Test (Carbon and Ammonium Oxidation))	
Toxicity to	EC50	3h	>25	mg/l	activated	Respirometr y Test) OECD 209		Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants,	Glycine max
bacteria:			00	-	sludge	(Activated Sludge, Respiration Inhibition		Other organisms:	EC50	21d	>10 00	mg/k g dw		Growth Test) OECD 208 (Terrestrial	Lycopers
						Test (Carbon and Ammonium		Other organisms:	EC50	21d	>10	mg/k		Plants, Growth Test) OECD 208	esculentu Avena
12.5. Results of PBT and vPvB						Oxidation))	No PBT substance,	g			00	g dw		(Terrestrial Plants, Growth	sativa
assessment							No vPvB substance	Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		Test) OECD 208 (Terrestrial	Glycine max
3-(trimethoxysilyl) Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes							Plants, Growth	
12.1. Toxicity to fish:	t LC50	e 96h	>93 4	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	Analogous conclusion	Other organisms:	NOEC/N OEL	21d	100	mg/k g dw		Test) OECD 208 (Terrestrial Plants,	Lycopers on esculenti
12.1. Toxicity to daphnia:	EC50	48h	331	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati	Analogous conclusion	Other organisms:	NOEC/N OEL	21d	100	mg/k g dw		Growth Test) OECD 208 (Terrestrial Plants,	Avena sativa
12.1. Toxicity to algae:	EC50	72h	>10 00	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	Analogous conclusion	Other organisms:	EC50	14d	>10 00	mg/k g dw	Eisenia foetida	Growth Test) OECD 207 (Earthworm, Acute	
12.2.		28d	67	%		Test) Regulation	Not readily	Other	NOTE:		400	- "	Fig. 1	Toxicity Tests)	
Persistence and degradability:						(EC) 440/2008 C.4-A (DETERMIN ATION OF	biodegrada ble, Analogous conclusion	Other organisms:	NOEC/N OEL	14d	100	mg/k g dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
						'READY' BIODEGRA DABILITY - DOC DIE- AWAY		Other organisms:	EC50	28d	>10 00	mg/k g dw		OECD 216 (Soil Microorganis ms - Nitrogen	
12.3. Bioaccumulative potential:						TEST)	No	Other organisms:	NOEC/N OEL	28d	100 0	mg/k g dw		Transformati on Test) OECD 216 (Soil	
12.4. Mobility in soil:							Slight							Microorganis ms -	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB							Nitrogen Transformati on Test)	

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BONDTEC STP 70 Power

Water solubility:		0,01	g/l	OECD 105	20°C
		66		(Water	
				Solubility)	

Silica, amorphous	3						
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Methanol							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.1. Toxicity to fish:	LC50	96h	154 00	mg/l	Lepomis macrochirus		EPA-660/3- 75-009
12.1. Toxicity to daphnia:	EC50	96h	182 60	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	EC50	96h	220 00	mg/l	Pseudokirch neriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	99	%		OECD 301 D (Ready Biodegradab ility - Closed Bottle Test)	Readily biodegrada ble
12.3. Bioaccumulative potential:	BCF		284 00		Chlorella vulgaris		Not to be expected
Toxicity to bacteria:	IC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	Log Pow		- 0,77				
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)

allocated under Certain circumstances. (2014/955/EU)
80 64 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. 15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number or ID number n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.3. Transport hazard class(i 14.4. Packing group: Classification code: LQ: 14.5. Environmental hazards: Tunnel restriction code: n.a. n.a. n.a.

Not applicable

Transport by sea (IMDG-code)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: Marine Pollutant: 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. Maritime transport in bulk according to IMO instruments 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

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Directive 2010/75/EU (VOC):

Comply with trade association/occupational health regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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 regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	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).

and the constituents (specified in Section H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H315 Causes skin irritation. H318 Causes serious eye damage.

H332 Harmful if inhaled.

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

Key literature references and sources

for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances

German Environment Agency "Rigoletto" information site on substances that are hazardous to water

(Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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)
Adsorbable organic halogen compounds

approx approximately

Art., Art. no.Article number ASTM ASTM Internat ASTM International (American Society for Testing and Materials)

ATE

Acute Toxicity Estimate
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

BAuA

Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

Bioconcentration factor
The International Bromine Council
body weight
Chemical Abstracts Service BCF BSEF

bw CAS CLP

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

DOC Dissolved organic carbon dw dw weight

dw dry weight

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

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass

(algae, plants

ECH European Community
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
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
Effect Concentration/Level of x % on inhibition

ErCx, E μ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate

(algae, plants)
etc. et cetera
EU European Union Ethylene-vinyl alcohol copolymer

EVAL Fax. Fax number

general Globally Harmonized System of Classification and Labelling of Chemicals gen. GHS

Global warming potential

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BONDTEC STP 70 Power 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 International Maritime Code for Dangerous Goods including, inclusive International Uniform Chemical Information Database International Unifor for Pure Applied Chemistry Lethal Concentration to 50 % of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil incl. IUCLID IUPAC LC50 LD50 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.av. not available n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development Organisation of Economic Co-operation and Developing organic Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration org. OSHA PBT PE PNEC PNEC predicted No Effect Concentration ppm parts per million policy parts per million Volatile organic compounds very persistent and very bioaccumulative wet weight VOC vPvB wwt 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.

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