

EU safety data sheet

Trade name: PROTEKT MULTI-FUNKTIONSABDICHTUNG 1K PRO

Product no.: PFA

Current version : 1.0.1, issued: 15.10.2024

Replaced version: 1.0.0, issued: 14.10.2024

Region: GER

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

1.1 Product identifier

Trade name

PROTEKT MULTI-FUNKTIONSABDICHTUNG 1K PRO

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

Relevant identified uses of the substance or mixture

Chemical product for building, modernising and repairing.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

LUGATO GmbH & Co. KG

Großer Kamp 1

D-22885 Barsbüttel

Telephone no. +49 (0)40 694 07-0

Fax no. +49 (0)40 694 07-109 + 110

Advice on Safety Data Sheet

sicherheit@lugato.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

-

Signal word

-

Hazard statement(s)

-

Hazard statements (EU)

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH208

Contains trimethoxy(vinyl)silane, 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

Precautionary statement(s)

-

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2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The substances of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Modified aqueous synthetic resin dispersion.

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	trimethoxy(vinyl)silane		pls. refer to footnote (2)	
	2768-02-7 220-449-8 014-049-00-0 01-2119513215-52	Skin Sens. 1B; H317 Acute Tox. 4; H332 Flam. Liq. 3; H226	< 5,00	wt%
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			
	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351i	< 5,00	wt%
3	2-octyl-2H-isothiazol-3-one			
	26530-20-1 247-761-7 613-112-00-5 -	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Chronic 1; H410 Aquatic Acute 1; H400 EUH071	< 0,10	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	V, W, 10	-	-	-
3	-	Skin Sens. 1A; H317: C ≥ 0,0015%	M = 100	M = 100

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
2	H351i inhalational; -; -

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
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1			16,8 mg/l
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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide; Dry chemical extinguisher; Foam; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Pyrolysis products

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Suppress gases/vapours/mists with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Advice on safe handling

Ensure adequate ventilation. Refer to protective measures listed in section 8.

General protective and hygiene measures

Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep only in the original container, tightly closed, in a well ventilated place. Keep from freezing. Protect from direct sunlight.

Requirements for storage rooms and vessels

Store product in closed containers.

Incompatible products

None known

Storage Class according TRGS 510

10-13 Combustible and Non-combustible liquids and solids that cannot be assigned to storage class 1-8.

7.3 Specific end use(s)

Industry solution

Liquid plastic for flat roofs, balconies and structures

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	toluene	108-88-3	203-625-9
	2006/15/EC		
	Toluene		
	WEL short-term (15 min reference period)	384	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	192	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	
	TRGS 900		
	Toluol		
	WEL long-term (8-hr TWA reference period)	190	mg/m ³ 50 ml/m ³
	Ceiling Limit	2(II)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
	TRGS 900		
	2-Methoxy-1-methylethylacetat		
	WEL long-term (8-hr TWA reference period)	270	mg/m ³ 50 ml/m ³
	Ceiling Limit	1(I)	
	Notes	Y	
	2000/39/EC		
	2-Methoxy-1-methylethylacetate		
	WEL short-term (15 min reference period)	550	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	275	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	
3	tetramethyl-orthosilicate	681-84-5	211-656-4
	TRGS 900		
	Tetramethylorthosilikat		
	WEL long-term (8-hr TWA reference period)	2	mg/m ³ 0,3 ml/m ³
	Ceiling Limit	1(I)	
4	silicon dioxide, chemically prepared	7631-86-9	231-545-4

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TRGS 900				
Kieselsäuren, amorphe				
WEL long-term (8-hr TWA reference period)		1 E	mg/m ³	
Notes		Y, 2		
2004/37/EC				
Respirable crystalline silica dust				
WEL long-term (8-hr TWA reference period)		0,1 (9)	mg/m ³	
5	methanol	67-56-1	200-659-6	
2006/15/EC				
Methanol				
WEL long-term (8-hr TWA reference period)		260	mg/m ³	200 ppm
Skin resorption / sensibilisation		Skin		
TRGS 900				
Methanol				
WEL long-term (8-hr TWA reference period)		130	mg/m ³	100 ml/m ³
Ceiling Limit		2 (II)		
Skin resorption / sensibilisation		H		
Notes		Y		

Biological limit values

No	Substance name			
1	toluene			
TRGS 903				
Toluol				
parameter		Toluol		
Value		600	µg/l	
Comments		5/2024 DFG		
sample material		B		
Sampling moment		g		
TRGS 903				
Toluol				
parameter		o-Kresol (nach Hydrolyse)		
Value		1,5	mg/l	
Comments		5/2024 DFG		
sample material		U		
Sampling moment		B		
TRGS 903				
Toluol				
parameter		Toluol		
Value		75	µg/L	
Comments		5/2024 DFG		
sample material		U		
Sampling moment		b		
2	methanol			
TRGS 903				
Methanol				
parameter		Methanol		
Value		15	mg/l	
Comments		5/2024 DFG		
sample material		U		
Sampling moment		B		

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	trimethoxy(vinyl)silane			2768-02-7 220-449-8
	dermal	Long term (chronic)	systemic	0,91 mg/kg/day

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	inhalative	Long term (chronic)	systemic	27,6	mg/m ³
	inhalative	Short term (acut)	systemic	73,6	mg/m ³
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			13463-67-7	
	inhalative	Long term (chronic)	local	1,25	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	trimethoxy(vinyl)silane			2768-02-7	
	oral	Long term (chronic)	systemic	0,63	mg/kg/day
	dermal	Long term (chronic)	systemic	0,63	mg/kg/day
	inhalative	Long term (chronic)	systemic	6,8	mg/m ³
	inhalative	Short term (acut)	systemic	54,4	mg/m ³
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			13463-67-7	
	inhalative	Long term (chronic)	local	210	µg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	trimethoxy(vinyl)silane		2768-02-7	
	water	fresh water	0,4	mg/L
	water	marine water	0,04	mg/L
	water	fresh water sediment	1,5	mg/kg dry weight
	water	marine water sediment	0,15	mg/kg dry weight
	soil	-	0,06	mg/kg dry weight

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

No special measures required.

Eye / face protection

No special measures required.

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Material thickness 1 mm

Breakthrough time > 480 min

Other

No special measures required.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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State of aggregation			
liquid			
Form			
liquid, viscous			
Colour			
product specific			
Odour			
characteristic			
pH value			
No data available			
Boiling point / boiling range			
No data available			
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	>	100	°C
Source	manufacturer		
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr.	1,4	g/cm ³
Reference temperature		20	°C
Source	manufacturer		
Solubility in water			
Source	manufacturer		
Comments	essentially insoluble		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
log Pow		1,1	
Reference temperature		20	°C
with reference to	pH 7		
Method	QSAR		
Source	ECHA		

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2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Not applicable		ECHA	
Source			
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LD50		7120 - 7236	mg/kg bodyweight
Species		rat	
Source		manufacturer	
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
LD50		> 2000	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LD50		3200	mg/kg bodyweight
Species		rabbit	
Source		manufacturer	
Acute inhalational toxicity (result of the ATE calculation for the mixture)			
Product Name			

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Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LC50		16,8	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
LC50		5,09	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Duration of exposure		24	h
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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Respiratory or skin sensitisation			
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Route of exposure		Skin	
Source		manufacturer	
Evaluation/classification		On the basis of the information available, the classification criteria are not met.	
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.	
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Type of examination		in vitro gene mutation study in bacteria	
Species		S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster Ovary (CHO)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Duration of exposure		72	h
Type of examination		In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus	
Species		mouse	
Method		EPA	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
Type of examination		DNA-Damage	
Species		rat	
Method		OECD 489	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Type of examination		In vitro mammalian cytogenicity	
Method		OECD 487	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	

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Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus
Species	rat
Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Route of exposure		oral	
NOAEL		> 300 mg/kg bw/d	
Type of examination	Reproductive studies - one generation		
Species	rat		
Method	OECD 443		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure		oral	
NOAEL		>= 75 mg/kg bw/d	
Type of examination	Prenatal Developmental Toxicity Study		
Species	rabbit		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure		oral	
NOAEL		>= 1000 mg/kg bw/d	
Type of examination	Reproductive studies - one generation		
Species	rat		
Method	OECD 443		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure		oral	
NOAEL		1000 mg/kg bw/d	
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure		oral	
NOEL		7500 mg/kg bw/d	
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Route of exposure		oral	
NOAEL		62,5 mg/kg bw/d	
Species	rat		
Method	OECD 422		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	inhalational
NOAEC	100 ppm
Species	rat
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] 13463-67-7 236-675-5
Route of exposure	oral
NOAEL	> 962 mg/kg bw/d
Species	rat
Method	OECD 408
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	inhalational
Species	rat
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Aspiration hazard

No data available

Endocrine disrupting properties

No data available

11.2 Information on other hazards

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LC50		191	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
EC50		168,7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to Daphnia (chronic)

No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
NOEC		28,1	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
EC50	>	89	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on the available data, the classification criteria are not met.		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
EC50	>	100	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Type	aerobic biodegradation		
Value		51	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Source	ECHA		
Evaluation	Not applicable for inorganic substances.		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
log Pow		1,1	
Reference temperature		20	°C
with reference to	pH 7		
Method	QSAR		
Source	ECHA		
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Not applicable			

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Source

ECHA

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
PROTEKT MULTI-FUNKTIONSABDICHTUNG 1K PRO	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The substances of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge into drains or waters and do not dispose of in public landfills. Due to ecotoxicological test results, the product is not harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2-octyl-2H-isothiazol-3-one	26530-20-1	247-761-7	75
2	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5	75
3	trimethoxy(vinyl)silane	2768-02-7	220-449-8	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: E2

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC-value <4 %

Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

National regulations

Water Hazard Class (Germany)

Class

3

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H351i	Suspected of causing cancer by inhalation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

- V If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- W It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.
This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
- 1 The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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