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

Revision date / version: 01.11.2021 / 0012

Replacing version dated / version: 08.06.2021 / 0011

Valid from: 01.11.2021 PDF print date: 01.11.2021 Tacolit Construction 310 ML

Art.: 9001145

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

Tacolit Construction 310 ML

Art.: 9001145

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

Relevant identified uses of the substance or mixture:

Adhesive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

+1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statement
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing
		difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Carc.	2	H351-Suspected of causing cancer.

2.2 Label elements





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



Danger

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer.

P201-Obtain special instructions before use. P261-Avoid breathing vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

As from 24 August 2023 adequate training is required before industrial or professional use. Diphenylmethanediisocyanate, isomeres and homologues

2.3 Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	1-<5





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Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

Titanium dioxide (Rutile) (in powder form containing 1	
% or more of particles with aerodynamic diameter <=	
10 μm)	
Registration number (REACH)	
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	215-282-2
CAS	1317-80-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

Do not induce vomiting.

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. The following may occur:





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Dermatitis (skin inflammation)

Drying of the skin.

Allergic contact eczema

Asthmatic symptoms

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

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

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Hydrogen chloride

Oxides of nitrogen

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Toxic pyrolysis products.

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

${\bf 6.1}$ Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

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 from entering drainage system.





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

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

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

Recommended cleaner:

Acetone

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 inhalation of the vapours.

Avoid contact with eyes or 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.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Suitable container:

Plastic

Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name		Content %:1- <5				
WEL-TWA: 0,02 mg/m3 (WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,					
all (as -NCO)) all (as -NCO))						
Monitoring procedures:						
BMGV: 1 µmol isocyanate	: Sen	(Isocyanates,				
(At the end of the period of	exposure)		all (as -NCO))			

®	Chemical Name	Titanium dioxide (Rutile) (in powder form containing 1 % or	Content %:1-
	Chemical Name	more of particles with aerodynamic diameter <= 10 μm)	<5



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WEL-TWA: 10 mg/m3 (total inhalable	WEL-STEL:			
dust), 4 mg/m3 (respirable dust)				
Monitoring procedures:				
BMGV:			Other information:	
Chemical Name Silica, amorp	hous			Content %:
WEL-TWA: 6 mg/m3 (total inh. dust),	WEL-STEL:			
2,4 mg/m3 (resp. dust)				
Monitoring procedures:				
BMGV:			Other information:	
© Chemical Name Calcium carb	onate			Content %:
WEL-TWA: 4 mg/m3 (respirable dust),	WEL-STEL:			
10 mg/m3 (total inhalable dust)				
Monitoring procedures:				
BMGV:		-	Other information:	

Area of application	ocyanate, isomeres and h Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment - marine		PNEC	0,1	mg/l	
	Environment - water,		PNEC	10	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	1	mg/kg	
Consumer	Human - oral	Short term, local	DNEL	20	mg/kg	
		effects			bw/d	
Consumer	Human - inhalation	Short term, local	DNEL	0,05	mg/m3	
		effects				
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term, local	DNEL	0,025	mg/m3	
		effects				
Consumer	Human - inhalation	Long term,	DNEL	0,025	mg/m3	
		systemic effects				
Consumer	Human - dermal	Short term, local	DNEL	17,2	mg/cm2	
		effects				
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Workers / employees	Human - inhalation	Short term, local	DNEL	0,1	mg/m3	
		effects				
Workers / employees	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
		systemic effects				
Workers / employees	Human - inhalation	Long term, local	DNEL	0,05	mg/m3	
		effects				





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Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm2
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

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

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

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

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).





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Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>=0,4

Permeation time (penetration time) in minutes:

>=480

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

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

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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

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

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Paste, Liquid
Colour: White
Odour: Characteristic

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

There is no information available on this parameter.

Flammability: Not combustible.

Lower explosion limit: There is no information available on this parameter.

Upper explosion limit: There is no information available on this parameter.





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Flash point:

Auto-ignition temperature: Decomposition temperature:

pH:

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:
Oxidising liquids:
Solubility(ies):

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

Does not apply to mixtures.

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

Does not apply to liquids.

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

Organic solvents

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Protect from humidity.

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					





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Acute toxicity, by oral route:				n.d.a.	
Acute toxicity, by				n.d.a.	
dermal route:					
Acute toxicity, by	ATE	>20	mg/l/4h	calcula	ated
inhalation:				value,	
				Vapou	ırs
Acute toxicity, by	ATE	>5	mg/l/4h	calcula	ated
inhalation:				value,	
				Aeroso	ol
Skin corrosion/irritation:				n.d.a.	
Serious eye				n.d.a.	
damage/irritation:					
Respiratory or skin				n.d.a.	
sensitisation:					
Germ cell mutagenicity:				n.d.a.	
Carcinogenicity:				n.d.a.	
Reproductive toxicity:				n.d.a.	
Specific target organ				n.d.a.	
toxicity - single					
exposure (STOT-SE):					
Specific target organ				n.d.a.	
toxicity - repeated					
exposure (STOT-RE):					
Aspiration hazard:				n.d.a.	
Symptoms:				n.d.a.	

Diphenylmethanediisocyanate, isomeres and homologues							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>10000	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute		
dermal route:					Dermal Toxicity)		
Acute toxicity, by	LC50	0,49	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,	
inhalation:					Inhalation	Does not	
					Toxicity)	conform	
						with EU	
						classification	
						•	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant	
					Dermal		
					Irritation/Corrosio		
					n)		
Serious eye				Rabbit	OECD 405 (Acute	Mild irritant	
damage/irritation:					Eye		
					Irritation/Corrosio		
					n)		
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin	
sensitisation:					Sensitisation)	contact)	





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	1	I		I		
Germ cell mutagenicity:					OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	
Carcinogenicity:		1	mg/m3	Rat	OECD 453	Positive
					(Combined	
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:	NOAEL	12	mg/m3	Rat	OECD 414	Negative,
			1118, 1110		(Prenatal	Aerosol
					Developmental	11010501
					Toxicity Study)	
Reproductive toxicity		4		Rat	OECD 414	Negative
(Developmental		-		Kat	(Prenatal	riegative
					l '	
toxicity):					Developmental	
				D .	Toxicity Study)	**
Reproductive toxicity				Rat	OECD 414	Negative
(Effects on fertility):					(Prenatal	
					Developmental	
					Toxicity Study)	
Specific target organ						Irritation of
toxicity - single						the
exposure (STOT-SE):						respiratory
						tract
Specific target organ	NOEC	0,2	mg/kg		OECD 453	
toxicity - repeated					(Combined	
exposure (STOT-RE):					Chronic	
I I I I I I I I I I I I I I I I I I I					Toxicity/Carcinoge	
					nicity Studies)	
Aspiration hazard:					menty studies)	No
Symptoms:						fever,
Symptoms.						coughing,
						headaches,
						· · · · · · · · · · · · · · · · · · ·
						nausea and
						vomiting.,
						dizziness,
						breathing
						difficulties,
						laryngeal
						oedema,
						abdominal
						pain,
						diarrhoea





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Specific target organ		Target
toxicity - single		organ(s):
exposure (STOT-SE),		respiratory
inhalative:		organs, May
		cause
		respiratory
		irritation.

Titanium dioxide (Rutile) (in powder form containing 1 % or more of particles with aerodynamic									
diameter <= 10 μm)									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt			_					
Acute toxicity, by oral	LD50	>10000	mg/kg	Rat					
route:									
Acute toxicity, by	LD50	>10000	mg/kg	Rabbit					
dermal route:									
Acute toxicity, by	LD50	>6,8	mg/l/4h						
inhalation:									
Skin corrosion/irritation:				Rabbit		Not irritant			

Silica, amorphous						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 423 (Acute	
route:					Oral Toxicity -	
					Acute Toxic Class	
					Method)	
Acute toxicity, by	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
Aspiration hazard:						No

Calcium carbonate									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 420 (Acute				
route:					Oral toxicity -				
					Fixe Dose				
					Procedure)				
Acute toxicity, by oral	LD50	> 5000	mg/kg	Rat					
route:									





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Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute	
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant,
damage/irritation:					Eye	Mechanical
_					Irritation/Corrosio	irritation
					n)	possible.
Respiratory or skin						No (skin
sensitisation:						contact)
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative,
						administered
						as Ca-lactate
Reproductive toxicity:						Negative,
-						administered
						as Ca-
						carbonate

11.2. Information on other hazards

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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Endocrine disrupting						Does not		
properties:						apply to		
						mixtures.		
Other information:						No other		
						relevant		
						information		
						available on		
						adverse		
						effects on		
l						health.		

SECTION 12: Ecological information

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

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to							n.d.a.		
fish:									





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12.1. Toxicity to	n.d.a.
daphnia:	
12.1. Toxicity to	n.d.a.
algae:	
12.2. Persistence	n.d.a.
and degradability:	
12.3.	n.d.a.
Bioaccumulative	
potential:	
12.4. Mobility in	n.d.a.
soil:	
12.5. Results of	n.d.a.
PBT and vPvB	
assessment	
12.6. Endocrine	Does not
disrupting	apply to
properties:	mixtures.
12.7. Other	No
adverse effects:	information
	available on
	other
	adverse
	effects on
	the .
One and a faction	environment.
Ozone depletion	Does not
potential (ODP):	degrade
	ozone.

Diphenylmethanediisocyanate, isomeres and homologues									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203			
fish:					rerio	(Fish, Acute			
						Toxicity Test)			
12.1. Toxicity to	NOEC/NO	21d	>10	mg/l	Daphnia	OECD 211			
daphnia:	EL				magna	(Daphnia			
						magna			
						Reproduction			
						Test)			
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202			
daphnia:					magna	(Daphnia sp.			
						Acute			
						Immobilisatio			
						n Test)			
12.1. Toxicity to	EC50	72h	>1640	mg/l	Scenedesmus	OECD 201			
algae:					subspicatus	(Alga,			
						Growth			
						Inhibition			
						Test)			





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12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready	Not biodegradabl
						Biodegradabil ity - Modified MITI Test (I))	e
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentra tion - Flow- Through Fish Test)	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information:	BOD	28d	<10	%		OECD 302 C (Inherent Biodegradabil ity - Modified MITI Test (II))	
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Titanium dioxide (Titanium dioxide (Rutile) (in powder form containing 1 % or more of particles with aerodynamic									
diameter <= 10 µm	1)									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			





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12.1. Toxicity to	LC0	48h	>1000	mg/l	Leuciscus idus	
fish:						
12.1. Toxicity to	LC0		>3	mg/l	Daphnia	
daphnia:					magna	
Toxicity to	EC0		>5000	mg/l	Pseudomonas	
bacteria:					fluorescens	
Toxicity to	EC0		>5000	mg/l	Escherichia	
bacteria:					coli	

Silica, amorphous							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	EC0	96h	>1000	mg/l	Brachydanio	OECD 203	
fish:			0		rerio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC0	24h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	ErC50	72h	>=100	mg/l	Scenedesmus	OECD 201	
algae:			00		subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence							Inorganic
and degradability:							products
							cannot be
							eliminated
							from water
							through
							biological
							purification
							methods.
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Calcium carbonate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	>14	mg/l	Desmodesmus	OECD 201	
algae:					subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	





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Toxicity to	EC50	3h	>1000	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
Toxicity to					Eisenia	OECD 207	Negative
annelids:					foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	
12.3.						/	Not relevant
Bioaccumulative							for inorganic
potential:							substances.
12.4. Mobility in							Not relevant
soil:							for inorganic
							substances.
12.5. Results of							Not relevant
PBT and vPvB							for inorganic
assessment							substances.
12.1. Toxicity to	LC50	96h	>1000	mg/l	Oncorhynchus		
fish:			0		mykiss		
12.1. Toxicity to	LC50	96h	>100	mg/l	Oncorhynchus	OECD 203	
fish:				_	mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	72h	>200	mg/l	Desmodesmus		
algae:					subspicatus		
12.2. Persistence							Inorganic
and degradability:							products
							cannot be
							eliminated
							from water
							through
							biological
							purification
							methods.

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





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allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

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 num	ber or ID	number:	n.a	ι.
-------	--------	-----------	---------	-----	----

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. 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

Observe restrictions:





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Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

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

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

< 0,5 %

REGULATION (EC) No 648/2004

n.a.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1-16

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)	Evaluation method used
No. 1272/2008 (CLP)	
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	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).

H351 Suspected of causing cancer by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Resp. Sens. — Respiratory sensitization

Skin Sens. — Skin sensitization

Carc. — Carcinogenicity

Acute Tox. — Acute toxicity - inhalation

Skin Irrit. — Skin irritation

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

STOT RE — Specific target organ toxicity - repeated exposure



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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.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

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

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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)

EC 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



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

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

plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LO Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.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

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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

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

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

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods





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VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt weight

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