## **SAFETY DATA SHEET**

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



# TECRYL

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

## 1.1. Product identifier

Product name: TECRYLRegistration number REACH: Not appProduct type REACH: Mixture

: Not applicable (mixture) : Mixture

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

## 1.2.1 Relevant identified uses

Treated article according to Regulation (EU) No 528/2012 Adhesive Sealant

#### 1.2.2 Uses advised against

Do not use for the manufacture of toys and childcare articles

## 1.3. Details of the supplier of the safety data sheet

#### Supplier of the safety data sheet

TEC7\* Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@tec7.be \*TEC7 is a registered trademark of Novatech International N.V.

## Manufacturer of the product

## 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) : +32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

## 2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### Supplemental information EUH208

EUH

1208	Contains: 1,2-benzisothiazol-3(2H)-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-
	one (3:1). May produce an allergic reaction.
1212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
	Contains biocides

## 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 2.2 Revision number: 0201

#### TECRYL CAS No Name M-factors and Note Remark Conc. (C) Classification according to CLP **REACH Registration No** EC No ATE titanium dioxide; [in powder form 13463-67-7 1%<C<2.5% Carc. 2; H351 (1)(2)Constituent containing 1 % or more of particles with 236-675-5 aerodynamic diameter ≤ 10 μm] 01-2119489379-17 2634-33-5 0.0015% 1,2-benzisothiazol-3(2H)-one Acute Tox. 2; H330 (1)(10) Constituent M: 1 (Acute, 220-120-9 <C<0.01% Skin Sens. 1; H317 ЕСНА Acute Tox. 4; H302 (registration Eye Dam. 1; H318 dossier)) Skin Irrit. 2: H315 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1; H317: C≥0,05%, (CLP Annex VI (ATP 0)) reaction mass of 5-chloro-2-methyl-2H-55965-84-9 C<0.0015% Acute Tox. 2; H330 (1)(2)(10) Constituent M: 100 (Acute, isothiazol-3-one and 2-methyl-2H-Acute Tox. 2; H310 CLP Annex VI isothiazol-3-one (3:1) Acute Tox. 3; H301 (ATP 13)) 01-2120764691-48 Skin Sens. 1A; H317 M: 100 Skin Corr. 1C; H314 (Chronic, CLP Eve Dam. 1: H318 Annex VI (ATP Aquatic Acute 1; H400 13)) Aquatic Chronic 1; H410 EUH071 Skin Irrit. 2; H315: 0,06% ≤C<0.6%, (CLP Annex VI (ATP 0)) Eye Dam. 1; H318: C≥0,6%, (CLP Annex VI (ATP 13)) Skin Corr. 1B; H314: C≥0,6%, (CLP Annex VI (ATP 0)) Eve Irrit. 2: H319: 0.06% ≤C<0,6%, (CLP Annex VI (ATP 0)) Skin Sens. 1: H317: C≥0,0015%, (CLP Annex VI (ATP 0))

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

## After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

## After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

## After eve contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

## 4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

Reason for revision: 2.2

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Class A foam extinguisher, Water (quick-acting extinguisher, reel).

Major fire: Water, Class A foam.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

## 5.2. Special hazards arising from the substance or mixture

In case of fire: possible release of toxic/corrosive gases/vapours.

## 5.3. Advice for firefighters

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

## 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

## 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Suitable protective clothing

See section 8.2

## 6.2. Environmental precautions

Contain released product.

## 6.3. Methods and material for containment and cleaning up

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene. Remove contaminated clothing immediately. Keep container tightly closed.

## 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

Meet the legal requirements. Protect against frost.

7.2.2 Keep away from:

Heat sources.

- 7.2.3 Suitable packaging material:
  - No data available

7.2.4 Non suitable packaging material: No data available

## 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 Occupational exposure

a) Occupational exposure limit values If limit values are applicable and available these will be listed below.

## Belgium

Titane (dioxyde de)	Time-weighted average exposure limit 8 h	10 mg/m³

Reason for revision: 2.2

Erança							
Titane (dioxyde de), en Ti		Tin	ne-weighted avera	ge exposure limit 8 h	(VL: Valeur non	1	0 mg/m <sup>3</sup>
		rég	glementaire indicat	ive)			
UK							
Titanium dioxide respirable		Tin	ne-weighted avera	ge exposure limit 8 h	(Workplace exposur	e limit 4	mg/m³
Titanium dioxide total inhala	ble	(EF Tin	140/2005)) ne-weighted avera	ge exposure limit 8 h	(Workplace exposur	e limit 10	0 mg/m <sup>3</sup>
		(EH	140/2005))				_
USA (TLV-ACGIH)						i	
Titanium dioxide		Tin	ne-weighted avera	ge exposure limit 8 h	(TLV - Adopted Valu	e) 1	0 mg/m <sup>3</sup>
b) National biological limit value If limit values are applicable and	<u>es</u> available these will be	e listed belov	v.				
Product name			Test	Number			
TiO2			NIOSH	7302			
TiO2			NIOSH	7304			
3.1.3 Applicable limit values when If limit values are applicable 3.1.4 Threshold values	using the substance of and available these	r mixture as will be list	<b>intended</b> ed below.				
reaction mass of 5-chloro-2-met	hyl-2H-isothiazol-3-on	e and 2-met	hyl-2H-isothiazol-3	-one (3:1)			
Effect level (DNEL/DMEL)	Туре			Value	Re	emark	
DNEL	Long-term local	effects inhal	ation	0.02 mg/m <sup>3</sup>	3		
	Acute local effe	cts inhalatior	ו	0.04 mg/m <sup>3</sup>	5		
reaction mass of 5-chloro-2-met	<u>on</u> hyl-2H-isothiazol-3-on	e and 2-met	hyl-2H-isothiazol-3	-one (3:1)			
Effect level (DNEL/DMEL)	Туре			Value	Re	emark	
DNEL	Long-term local	effects inhal	ation	0.02 mg/m <sup>3</sup>	3		
	Acute local effe	cts inhalatior	1	0.04 mg/m <sup>3</sup>	3		
PNEC 1.2-benzisothiazol-3(2H)-one							
Compartments		Value			Remark		
Fresh water		4.03 μg/l					
Fresh water (intermittent relea	ases)	1.1 μg/l					
Marine water		0.403 µg/l					
Marine water (intermittent re	eases)	110 ng/l					
STP		1.03 mg/l					
Fresh water sediment		49.9 µg/kg s	sediment dw				
		4.99 μg/kg s	l dw				
reaction mass of 5-chloro-2-met	hyl-2H-isothiazol-3-on	e and 2-met	hyl-2H-isothiazol-3	-one (3:1)			
Compartments	·	Value		· ·	Remark		
Fresh water		3.39 µg/l					
Fresh water (intermittent relea	ases)	3.39 µg/l					
Marine water		3.39 μg/l					
Marine water (intermittent re	eases)	3.39 µg/l					
SIF Fresh water sediment		0.23 mg/1	sediment dw				
Marine water sediment		0.027 mg/kg	sediment dw		1		
Soil		0.01 mg/kg	soil dw				
8.1.5 Control banding		0,0					
If applicable and available it • Exposure controls	will be listed below						
The information in this section is relevant exposure scenarios tha	s a general descripti t correspond to you	on. If applic r identified	able and availab use.	le, exposure scena	rios are attached i	in annex. A	lways use the
Keep away from naked flame exhaust/ventilation or with re	s/heat. Measure the espiratory protection	e concentra n.	tion in the air re	gularly. Carry opera	tions in the open/	under local	l
<b>3.2.2 Individual protection measure</b> Observe strict hygiene. Do no	<b>es, such as personal p</b> ot eat, drink or smok	rotective equ e during wo	<b>uipment</b> ork.				
a) <u>Respiratory protection:</u> Respiratory protection not re b) Hand protection	quired in normal co	nditions. Du	ıst production: dı	ist mask with filter	type P3.		
Protective gloves against che c) Eye protection:	emicals (EN 374).						
Safety glasses (EN 166). d) Skin protection:	or EN 12024)						
for revision: 2.2	OUTEN 13034).			Publication	date: 2018-03-05		
				Date of revi	sion: 2021-07-17		

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	White
Particle size	Not applicable (mixture)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	> 21 mm²/s
Melting point	0 °C
Boiling point	100 °C
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; soluble
Relative density	1.61 ; 20 °C
Absolute density	1610 kg/m³ ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
рН	7 - 9 ; 20 °C

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Heating increases the fire hazard.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions No data available.

## 10.4. Conditions to avoid

**Precautionary measures** 

Keep away from naked flames/heat.

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

No data available.

## **SECTION 11: Toxicological information**

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

11.1.1 Test results

## Acute toxicity

## **TECRYL**

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>titanium dioxide</u>: [in powder form containing 1 % or more of particles with aerodynamic diameter  $\le 10 \mu$ m]

Rout	te of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
							determination	
Oral		LD50	OECD 401	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Dern	nal						Data waiving	
Inha	lation (dust)	LC50	OECD 403	> 5.09 mg/l	4 h	Rat (male)	Experimental value	

Reason for revision: 2.2

Publication date: 2018-03-05 Date of revision: 2021-07-17

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	490 mg/kg bw		Rat (male / female)	Experimental value	
Skin	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation						Data waiving	
Inhalation			category 2			Literature study	
ction mass of 5-chlore	o-2-methyl-21	I-isothiazol-3-one and	2-methyl-2H-isothi	azol-3-one (3:1)	•		•
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	66 mg/kg bw		Rat (male / female)	Experimental value	Calculated by reference to active substance
Dermal	LD50	OECD 402	> 141 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	0.17 mg/l air	4 h	Rat (male / female)	Experimental value	Calculated by reference to active

#### Conclusion

Not classified for acute toxicity

Corrosion/irritation

#### **TECRYL**

No (test)data on the mixture available

Judgement is based on the relevant ingredients

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404	4 h	48 hours	Rabbit	Experimental value	

## 1,2-benzisothiazol-3(2H)-one

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Serious eye	EPA OPP 81-4		24; 48; 72 hours	Rabbit	Experimental	
	damage					value	
Skin	Not irritating	EPA OPP 81-5	4 h	24; 48; 72 hours	Rabbit	Experimental	
						value	
Skin	Irritating;					Annex VI	
	category 2						
action mass of 5-chl	oro-2-methyl-2H-iso	thiazol-3-one and 2-	methyl-2H-isothiazo	l-3-one (3:1)			

#### r Route of exposure Result Method Value Exposure time Time point Species Remark determination **OECD 405** 1; 24; 48; 72 hrs; Eye Serious eye Rabbit Experimental Aqueous solution damage 7; 14 days value Skin Corrosive OECD 404 4 h Rabbit Experimental Aqueous solution value

## **Conclusion**

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

## Respiratory or skin sensitisation

<u>TECRYL</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10 µm]</u>

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429			Mouse (female)	Experimental value	
Inhalation (dust)	Not sensitizing				Mouse (female)	Experimental value	
1,2-benzisothiazol-3(	2H)-one						
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406		24; 48 hours	Guinea pig (male	Experimental value	

Reason for revision: 2.2

	oro-2-methyl-2	2H-isothiazol-3-	one and 2-methy	l-2H-isothia	azol-3-one (3:1)			
Route of exposure	Result	Method	Expos	ure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406				Guinea pig (male / female)	Experimental value	
clusion								
ot classified as sensit	izing for skin							
ot classified as sensit	izing for inhala	ation						
target organ toxicit	v							
0 0	•							
<u>′L</u>								
(test)data on the mix	ture available	1						
dgement is based on	the relevant i	ingredients	more of particle	c with acro	dunamic diamotor <	10 um]		
Bouto of exposure	Deremeter		Value			Evposuro timo	Enocios	Value
Route of exposure	Parameter	Methou	value	Organ	Effect	exposure time	species	determinati
Oral (stomach	NOAEL	OECD 408	> 1000 mg/kg		No effect	90 dav(s)	Rat (male /	Experimenta
tube)		0200 100	bw/dav				female)	value
Dermal							,	Data waivin
action mass of 5-chlo	pro-2-methyl-2	2H-isothiazol-3-	one and 2-methy	l-2H-isothia	azol-3-one (3:1)			
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
				_				determinati
Oral (diet)	NOAEL	OECD 409	22 mg/kg		No adverse	13 week(s)	Dog (male /	Experimenta
			bw/day		systemic		female)	value
					effects			
	NOAEL	EPA OPP 82-3	2.625 mg/kg		No adverse	13 weeks (6h / da	y, Rat (male /	Experimenta
Dermal	systemic		bw/day		systemic	5 days / week)	female)	value
Dermal			ļ		effects			
Dermal	effects		10 105 mg/kg		No effect	13 weeks (6h / da	y, Rat (male /	Experiment
Dermal Dermal	effects NOAEC	EPA OPP 82-3	0.100 116/16			5 days / week)	female)	value
Dermal Dermal	effects NOAEC local	EPA OPP 82-3	bw/day					1
Dermal Dermal	effects NOAEC local effects	EPA OPP 82-3	bw/day					
Dermal Dermal Inhalation (aerosol	effects NOAEC local effects ) NOAEC	EPA OPP 82-3 OECD 412	bw/day 110 mg/m <sup>3</sup> air		No effect	4 weeks (6h / day,	, 5 Rat (male /	Experiment

No (test)data on the mixture available

Judgement is based on the relevant ingredients titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10 µm]

	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster ovary (CHO)		Experimental value	
	Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value	
rea	ction mass of 5-chloro-2-me	ethyl-2H-isothiazol-3-one and	2-methyl-2H-isothiazol-3-on	<u>e (3:1)</u>		
	Result	Method	Test substrate	Effect	Value determination	Remark
	Positive with metabolic activation, positive without metabolic activation	EPA OPP 84-2	Bacteria (S.typhimurium)		Experimental value	Aqueous solution
	Positive with metabolic activation, positive without metabolic activation	EPA OPP 84-2	Mouse (lymphoma L5178Y cells)		Experimental value	Aqueous solution

### Mutagenicity (in vivo)

## <u>TECRYL</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10 µm]

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	OECD 474		Mouse (male / female)		Experimental value

Reason for revision: 2.2

Publication date: 2018-03-05 Date of revision: 2021-07-17

		TECRY	L		
action mass of 5-chloro-2-methyl-2H	-isothiazol-3-one and	2-methyl-2H-isothiazol-3-	one (3:1)		
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	EPA OPP 84-2	2 dose(s)/24-hour	Mouse (male / female)		Experimental value
		interval			
aclusion		•			•

clusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

### **TECRYL**

No (test)data on the mixture available

Judgement is based on the relevant ingredients

The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq$  10  $\mu m.$ 

<u>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10  $\mu$ m]</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (aerosol)		Equivalent to OECD 453		105 weeks (6h / day, 5 days / week)	Rat (male)	Lung tissue affection/degen eration	Lungs	Experimental value
Inhalation (aerosol)	NOAEC	Equivalent to OECD 453	5 mg/m³ air	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect	Lungs	Experimental value
Oral (diet)	NOEL	Carcinogenic toxicity study	50000 ppm	103 weeks (7 days / week)	Rat (male / female)	No carcinogenic effect		Experimental value
ction mass of	5-chloro-2-me	thyl-2H-isothiazol-3	-one and 2-me	thyl-2H-isothiazol-3-o	ne (3:1)		-	
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (drinking water)	NOEL	OECD 453	300 ppm	24 month(s)	Rat (male / female)	No carcinogenic effect		Experimental value

**Conclusion** 

Not classified for carcinogenicity

#### **Reproductive toxicity**

## TECRYL

No (test)data on the mixture available

Judgement is based on the relevant ingredients titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\le 10 \mu$ m]

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity	NOAEL	OECD 414	1000 mg/kg	2 weeks (7 days /	Rat	No effect		Experimental
(Oral (stomach tube))			bw/day	week)				value
Maternal toxicity (Oral	NOAEL	OECD 414	1000 mg/kg	2 weeks (7 days /	Rat	No effect		Experimental
(stomach tube))			bw/day	week)				value
Effects on fertility (Oral	NOAEL	OECD 443	≥ 1000	14 day(s)	Rat (male /	No effect		Experimental
(diet))			mg/kg		female)			value
			bw/day					

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity (Oral (stomach tube))	NOAEL	EPA OPP 83-3	≥ 19.6 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	LOAEL	EPA OPP 83-3	28 mg/kg bw/day	10 days (gestation, daily)	Rat	Maternal toxicity		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	OECD 416	30 ppm	10 week(s)	Rat (male / female)	No effect		

**Conclusion** 

Not classified for reprotoxic or developmental toxicity

#### **Toxicity other effects**

#### **TECRYL**

No (test)data on the mixture available

#### Chronic effects from short and long-term exposure

TECRYL

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

Reason for revision: 2.2

## SECTION 12: Ecological information

## 12.1. Toxicity

## <u>TECRYL</u>

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 1000 mg/l		Pisces		Fresh water	
Acute toxicity crustacea	EC50		> 1000 mg/l		Invertebrata		Fresh water	
Toxicity algae and other aquatic plants	EC50	OECD 201	> 100 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	NOEC	OECD 201	≥ 100 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
1,2-benzisothiazol-3(2H)-one								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Toxicity algae and other aquatic plants	ErC50	OECD 201	150 μg/l	72 h	Pseudokirchneri ella subcapitata			Experimental value; GLP
reaction mass of 5-chloro-2-meth	yl-2H-isothiazo	I-3-one and 2-	methyl-2H-isot	hiazol-3-one (3	<u>8:1)</u>			
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity crustacea	EC50		0.007 mg/l	48 h	Acartia tonsa		Salt water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.49 μg/l	48 h	Skeletonema costatum	Static system	Salt water	Experimental value; Growth rate

### **Conclusion**

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

## 1,2-benzisothiazol-3(2H)-one

## Biodegradation water

	Method	Value	Duration	Value determination			
	OECD 301C	85 %; GLP	63 day(s)	Experimental value			
rea	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301B	47.6 % - 55.8 %; GLP	28 day(s)	Experimental value

## **Conclusion**

Water Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

## <u>TECRYL</u>

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10  $\mu$ m]

LOg	Kow

	Method	Remark	Value	Temperature	Value determination
		No data available			
<u>1,2</u>	benzisothiazol-3(2H)-one				

#### **BCF** fishes

r isiles						
Parameter	r Method Value Duration Species V		Value determination			
BCF Equivalent to 0		6.62; Fresh weight	56 day(s)	Lepomis macrochirus		Experimental value
	305					
Log Kow						
Method	Remark		Value		Temperature	Value determination
EU Method A.8			0.7		20 °C	Experimental value

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### BCF fishes

ber homes							
Parameter Method			Value	Duration	Species		Value determination
BCF OECD 305			41 - 54; Fresh weight	28 day(s)	Lepomis macrochirus		Experimental value
Log Kow	og Kow						
Method	R	Remark		Value		Temperature	Value determination
OECD 107				0.75		24 °C	Experimental value

#### **Conclusion**

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

1,2-benzisothiazol-3(2H)-one

## (log) Koc

	Parameter	Method	Value	Value determination
	log Koc	OECD 121	0.97	Experimental value
rea	ction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methy	-2H-isothiazol-3-one (3.1)		

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (log) Koc

-	Parameter	Method	Value	Value determination
	Кос	OECD 106	6.4 - 10	Experimental value
	log Koc		0.81 - 1	Calculated value

#### **Conclusion**

Contains component(s) with potential for mobility in the soil

#### 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

### 12.7. Other adverse effects

### TECRYL

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

**Ozone-depleting potential (ODP)** 

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### Groundwater

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 13.1. Waste treatment methods

### 13.1.1 Provisions relating to waste

European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

No data available

## SECTION 14: Transport information

## Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14. <u>1. UN number</u>	
Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Hazard identification number	
Class	
Classification code	
14.4. Packing group	
Packing group	
Labels	
on for revision: 2.2	Publication date: 2018-03-05
	Date of revision: 2021-07-17

R

		TECI	RYL			
14.5. Environmental hazards	terre used.					
14.6. Special precautions for user	tance mark		no			
Special provisions						
Limited quantities	ording to IMO instruments	<u> </u>				
Annex II of MARPOL 73/78	Annex II of MARPOL 73/78		Not applicable,	based on available data		
ECTION 15: Regulatory in	formation					
15.1. Safety, health and environ	mental regulations/	legislation sp	ecific for the	substance or mixture		
European legislation:		-8.5.6. <b>-</b> P				
VOC content Directive 2010/75/E	U					
VOC content	VOC content		Remark			
0.85 %						
European drinking water standard	ls (Directive 98/83/EC)					
1,2-benzisothiazol-3(2H)-one						
Parameter	Parametric value	Note		Reference		
Pesticides	0.1 μg/l			usted in Annex I, Part B, of Directive 98/83/EC on the qualit water intended for human consumption.	y of	
Pesticides — Total	0.5 μg/l			Listed in Annex I, Part B, of Directive 98/83/EC on the qualit water intended for human consumption.	y of	
<b>REACH Annex XVII - Restriction</b>						
Contains component(s) subject	t to restrictions of Annex 3	XVII of Regulatio	n (EC) No 1907/2	2006: restrictions on the manufacture, placing on the market		
and use of certain dangerous	substances, mixtures and a	articles.	Conditions of rest	triction		
	substances or of the mixture	, or the group of				
<ul> <li>reaction mass of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol- 3-one (3:1)</li> </ul>	following points: (a) substances classified as a following in Part 3 of Annex 1 (EC) No 1272/2008: — carcinogen category 1A, 1E 2, but excluding any such sub due to effects only following exposure by inhalation — reproductive toxicant cate but excluding any such subst due to effects only following inhalation — skin sensitiser category 1, — skin corrosive category 1, — skin corrosive category 2 — serious eye damage categ irritant category 2 — serious eye damage categ irritant category 2 (b) substances listed in Anne (EC) No 1223/2009 of the Eu Parliament and of the Counc (c) substances listed in Annee; (EC) No 1223/2009 for which specified in at least one of th and i of the table in that Ann listed in Appendix 13 to this. The ancillary requirements ir and 8 of column 2 of this ent mixtures for use for tattooin whether or not they contain falling within points (a) to (d) this entry.	ny of the VI to Regulation B or 2, or germ 3 or ostances classified expory 1A, 1B or 2 ances classified exposure by 1A or 1B 1A, 1B or 1C or ory 1 or eye x II to Regulation ropean il x IV to Regulation a condition is ee columns g, h ex (d) substances Annex. paragraphs 7 ry apply to all g purposes, a substance ) of this column of				
National legislation Belgium TECRYL No data available <u>National legislation The Netherland</u> TECRYL	<u>Is</u>					
Waterbezwaarlijkheid B (4); Algemene Beoordelingsmethodiek		k (ABM)				
<u>National legislation France</u> <u>TECRYL</u> No data available						
titanium dioxide; [in powder for	m containing 1 % or more	of particles with Ti: C2	<u>aerodynamic di</u>	<u>ameter ≤ 10 μm]</u>		
		,				
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National legislation Germany TECRYL		
WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017	
titanium dioxide	[in powder form containing 1 % or more of particles with aerodynamic diameter $\le$ 10 $\mu$ m]	
TA-Luft	5.2.1	
1,2-benzisothiazo	pl-3(2H)-one	
TA-Luft	5.2.1	
reaction mass of	5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
TA-Luft	5.2.5/1	
<u>National legislation</u> <u>TECRYL</u> No data availa	United Kingdom ble	
Other relevant data TECRYL		
No data availa		
titanium diovide	in nowder form containing 1 % or more of particles with aerodynamic diameter < 10 µm]	
	In powder form containing 1 / or more of particles with acrodynamic diameter 2 to pm	
IARC - classifica	tion 2B; Itanium dioxide	
ILV - Carcinoge	n litanium dioxide; A4	
15.2. Chemical safe	ty assessment	
No chemical safe	ty assessment has been conducted for the mixture.	
	or information	
.110N 10. Uti		
Full text of any H- a	nd EUH-statements referred to under section 3:	
H301 Toxic if sw	rallowed.	
H302 Harmful if	swallowed.	
H310 Fatal in co	intact with skin.	
H314 Causes se	vere skin burns and eye damage.	
H315 Causes sk	in irritation.	
H317 May cause	e an allergic skin reaction.	
H318 Causes se	rious eve damage.	
H330 Fatal if in	laded	
H351 Suspecter	laf causing cancer if inhaled	
H400 Very toxic		
H410 Very toxic	to aquatic life with long lasting offects	
	to aquate life with long lasting effects.	
EUH071 Corrosi	quale me with long lasting effects.	
EUH209 Contain	ve to the respiratory indext.	
EUH212 Warnin	is a serisitisting substance, may produce an allergic reaction.	
	g: nazardous respirable dust may be formed when used. Do not breathe dust.	
(*)	INTERNAL CLASSIFICATION BY BIG	
ADI	Acceptable daily intake	
AOEL	Acceptable operator exposure level	
ATE	Acute Toxicity Estimate	
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)	
DMEL	Derived Minimal Effect Level	
DNEL	Derived No Effect Level	
EC50	Effect Concentration 50 %	
ErC50	EC50 in terms of reduction of growth rate	
LC50	Lethal Concentration 50 %	
LD50	Lethal Dose 50 %	
NOAEL	No Observed Adverse Effect Level	
NOEC	No Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent, Bioaccumulative & Toxic	
PNEC	Predicted No Effect Concentration	
STP	Sludge Treatment Process	
vPvB	very Persistent & very Bioaccumulative	
The information according to the storage, transpo time to time. Onl does not apply to no quality specifi	in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, rt and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from y the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information o substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers cation for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does	

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mentioned agreement/conditions for details.

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