

**Colanyl Black PR 130**

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Substance key: SXR050774

Revision Date: 03.06.2022

Version : 3 - 8 / EU

Date of printing : 11.12.2022

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

**1.1. Product identifier**

**Trade name**

**Colanyl Black PR 130**

**Material number:** 105141

**Chemical nature:**

C.I. Pigment Black 7 in aqueous dispersion containing 1,2-propylene glycol > 1%

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

**Relevant identified uses of the substance or mixture**

Industry sector : Varnish industry  
Plastic processing industry.  
Printing Inks Industry  
Techno-chemical industry.  
Type of use : Colouring agent

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

**Identification of the company**

Heubach Colorants Germany GmbH  
Brüningstraße 50  
65929 Frankfurt am Main  
Telephone no. : +49 69 305 13619

**Information about the substance/mixture**

Product Stewardship  
e-mail: SDS.PI.Europe@clariant.com

**1.4. Emergency telephone number**

00800-5121 5121 (24 h)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Additional Labelling**

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1). May produce an allergic reaction.

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**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture 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.

Toxicological information: The substance/mixture 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.

No hazards to be specially mentioned.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411  M-Factor (Acute aquatic toxicity): 1  specific concentration limit Skin Sens. 1; H317 >= 0,05 %	>= 0,0025 - < 0,025
5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)	55965-84-9  613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071	>= 0,0002 - < 0,0015

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		<hr/> <p>M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100</p> <hr/> <p>specific concentration limit Skin Corr. 1C; H314 &gt;= 0,6 % Skin Irrit. 2; H315 0,06 - &lt; 0,6 % Eye Irrit. 2; H319 0,06 - &lt; 0,6 % Skin Sens. 1A; H317 &gt;= 0,0015 % Eye Dam. 1; H318 &gt;= 0,6 %</p>	
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For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Get medical advice/ attention if you feel unwell.
- If inhaled : Remove to fresh air.
- In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.
- In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.
- If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

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

- Symptoms : No symptoms known currently.
- Risks : No hazards known at this time.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet  
Dry powder

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Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Self-contained breathing apparatus

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear suitable protective equipment.  
Do not let the liquid drain into rivers, ponds or sewer systems.

**6.2 Environmental precautions**

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Treat recovered material as described in the section "Disposal considerations".

**6.4 Reference to other sections**

Information regarding Safe handling, see chapter 7.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : When used and handled appropriately no special measures are needed

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

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**7.2 Conditions for safe storage, including any incompatibilities**

Further information on storage conditions : - sensitive to frost - In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

Keep containers tightly closed in a cool, well-ventilated place.

**7.3 Specific end use(s)**

Specific use(s) : No further recommendations.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value	
Propylene Glycol CAS-No.: 57-55-6	Workers	Inhalation	Long-term systemic effects	168 mg/m <sup>3</sup>	
	Remarks:DNEL				
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>	
	Remarks:DNEL				
	Consumers	Inhalation	Long-term systemic effects	50 mg/m <sup>3</sup>	
	Remarks:DNEL				
	Consumers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>	
	Remarks:DNEL				
	1,2-Benzisothiazol-3(2H)-one CAS-No.: 2634-33-5	Workers	Inhalation	Long-term systemic effects	6,81 mg/m <sup>3</sup>
	Remarks:DNEL				
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg bw/day	
	Remarks:DNEL				
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m <sup>3</sup>	
	Remarks:DNEL				
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg bw/day	
	Remarks:DNEL				
	5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1) CAS-No.: 55965-84-9	Workers	Inhalation	Long-term local effects	0,02 mg/m <sup>3</sup>

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

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Remarks:DNEL				
Workers	Inhalation	Acute local effects	0,04 mg/m3	
Remarks:DNEL				
Consumers	Inhalation	Long-term local effects	0,02 mg/m3	
Remarks:DNEL				
Consumers	Inhalation	Acute local effects	0,04 mg/m3	
Remarks:DNEL				
Consumers	Oral	Long-term systemic effects	0,09 mg/kg bw/day	
Remarks:DNEL				
Consumers	Oral	Acute systemic effects	0,11 mg/kg bw/day	
Remarks:DNEL				

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Propylene Glycol CAS-No.: 57-55-6	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57,2 mg/kg dry weight (d.w.)
1,2-Benzisothiazol-3(2H)-one CAS-No.: 2634-33-5	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l
	Intermittent use/release	0,0011 mg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/kg dry weight (d.w.)
	Marine sediment	0,00499 mg/kg dry weight (d.w.)
5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1) CAS-No.: 55965-84-9	Fresh water	3,39 µg/l
	Marine water	3,39 µg/l
	Sewage treatment plant	0,23 mg/l
	Soil	0,01 mg/kg dry weight (d.w.)
	Intermittent use/release	3,39 µg/l
	Fresh water sediment	0,027 mg/kg dry weight (d.w.)
Marine sediment	0,027 mg/kg dry weight (d.w.)	

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**8.2 Exposure controls**

**Personal protective equipment**

- Eye protection : Safety glasses
- Hand protection  
Remarks : Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Skin and body protection : working clothes
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Protective measures : Wear suitable protective equipment.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Physical state : Liquid
- Colour : black
- Odour : not specified
- Odour Threshold : not required
- Freezing point : no data available
- Boiling point : > 100 °C (1.013 hPa)
- Upper explosion limit / upper flammability limit : not determined
- Lower explosion limit / Lower flammability limit : not determined
- Flash point : not determined
- Auto-ignition temperature : 350 °C  
Method: DIN 51794
- Decomposition temperature : > 100 °C  
with dehydration
- pH : approx. 7 (20 °C)  
Concentration: 100 %  
Aqueous slurry
- Viscosity

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Viscosity, dynamic	:	< 1,3 Pa.s (20 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	(20 °C) miscible
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	approx. 1,2 g/cm <sup>3</sup> (20 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

**9.2 Other information**

Explosives	:	no data available
Oxidizing properties	:	no data available
Flammable solids		
Burning number	:	Not applicable
Metal corrosion rate	:	no data available
Evaporation rate	:	not determined
Minimum ignition energy	:	not determined
Molecular weight	:	no data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use. Stable

**10.4 Conditions to avoid**

Conditions to avoid : None known.



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**10.5 Incompatible materials**

Materials to avoid : no data available

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Product:**

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Acute oral toxicity : LD50 (Rat, male and female): 670 - 784 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): 0,5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPPTS 870.1300  
GLP: yes

Acute toxicity estimate: Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): 0,171 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

Assessment: Corrosive to the respiratory tract.

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Acute toxicity estimate: Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): 92,4 mg/kg

Acute toxicity estimate: Method: Calculation method

**Skin corrosion/irritation**

**Product:**

Remarks : no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Species : Rabbit  
Exposure time : 4 h  
Method : Other  
Result : Irritating to skin.  
GLP : yes

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure  
GLP : no

**Serious eye damage/eye irritation**

**Product:**

Remarks : no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Species : Rabbit  
Exposure time : 2,9 h - 11 d  
Result : Risk of serious damage to eyes.  
GLP : yes

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Species : Rabbit  
Method : Other  
Result : Risk of serious damage to eyes.  
GLP : no

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**Respiratory or skin sensitisation**

**Product:**

Remarks : no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Test Type : Guinea pig maximization test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : Other  
Result : May cause sensitisation by skin contact.  
GLP : yes

Assessment : Harmful if swallowed., Fatal if inhaled., Causes skin irritation.,  
Causes serious eye damage.  
May cause an allergic skin reaction.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one  
(3:1):**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitiser, sub-category 1A.  
GLP : yes

Assessment : Toxic if swallowed., Fatal in contact with skin., Fatal if  
inhaled., Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-  
Assessment : No information available.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Genotoxicity in vitro : Test Type: Mouse lymphoma assay  
Test system: mouse lymphoma cells  
Concentration: 0,1 - 12,8 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Ames test

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Test system: Salmonella typhimurium  
Concentration: 0,064 - 200 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Concentration: 1 - 40 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive  
GLP: yes

Genotoxicity in vivo

: Test Type: Other  
Species: Rat (male)  
Strain: wistar  
Cell type: Liver cells  
Application Route: Ingestion  
Exposure time: single dose  
Dose: 560 - 1400 mg/kg  
Method: OECD Test Guideline 486  
Result: negative  
GLP: yes

Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: CD1  
Cell type: Bone marrow  
Application Route: Ingestion  
Exposure time: single dose  
Dose: 125-250-500-1000-2000-5000mg/k  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Genotoxicity in vitro : Test Type: In vitro study  
Metabolic activation: with and without metabolic activation  
Result: Conflicting results have been seen in different studies.

Genotoxicity in vivo

: Test Type: Micronucleus test  
Species: Rat  
Cell type: Bone marrow  
Application Route: Oral  
Exposure time: <= 5 d  
Dose: 1-5 x <= 28 mg/kg  
Result: negative

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Test Type: Micronucleus test

Species: Mouse

Application Route: Oral

Exposure time: <= 5 d

Dose: 1-5 x <= 20 - 30 mg/kg

Result: negative

Germ cell mutagenicity-  
Assessment : In vivo tests did not show mutagenic effects

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Carcinogenicity -  
Assessment : No information available.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one  
(3:1):**

Carcinogenicity -  
Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Effects on fertility : Species: Rat, male  
Application Route: oral (feed)  
Dose: 18,5 - 97,8 mg/kg  
General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight  
General Toxicity F1: NOAEL: 48 mg/kg body weight  
Method: Other  
GLP: yes

Species: Rat, female  
Application Route: oral (feed)  
Dose: 27,0 - 114,8 mg/kg  
General Toxicity - Parent: NOAEL: 27 mg/kg body weight  
General Toxicity F1: NOAEL: 56,6 mg/kg body weight  
Method: Other  
GLP: yes

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Effects on foetal development : Species: Rat, female  
Application Route: oral (gavage)  
Dose: 10 - 40 - 100 mg/kg  
General Toxicity Maternal: NOAEL: 10 mg/kg body weight  
Teratogenicity: NOAEL: 40 mg/kg body weight  
Method: Directive 67/548/EEC, Annex V, B.31.  
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Effects on fertility : Species: Rat, male and female  
Application Route: Drinking water  
Dose: 25 - 75 - 225 ppm  
General Toxicity - Parent: NOAEL: 16,3 - 24,7 mg/kg body weight  
General Toxicity F1: NOAEL: 16,3 - 24,7 mg/kg body weight  
Method: Other  
GLP: yes

Species: Rat, male and female  
Application Route: Drinking water  
Dose: 30 - 100 - 300 ppm  
General Toxicity - Parent: NOAEL: 2,8 - 4,4 mg/kg body weight  
General Toxicity F1: NOAEL: 22,7 - 28 mg/kg body weight  
General Toxicity F2: NOAEL: 35,7 - 39,1 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development : Species: Rat, male and female  
Application Route: oral (gavage)  
Dose: <= 15 mg/kg  
Developmental Toxicity: NOAEL: 15 mg/kg body weight  
Method: Other

Species: Rat, male and female  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: <= 3,95 mg/kg body weight  
Method: Other

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity  
Embryotoxicity classification not possible from current data.

**STOT - single exposure**

**Product:**

Remarks : no data available

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**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure**

**Product:**

Remarks : no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Product:**

Remarks : This information is not available.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Species : Dog, male and female  
NOAEL : 5 mg/kg  
LOAEL : 20 mg/kg  
Application Route : oral (gavage)  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 5 - 20 - 50 mg/kg  
Control Group : yes  
Method : 88/302/EC  
GLP : yes

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Species : Rat, male and female

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NOAEL : 16,3 - 24,7 mg/kg  
Application Route : Drinking water  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 25 - 75 - 225 ppm  
Control Group : yes  
Method : Other  
GLP : yes

**Aspiration toxicity**

**Product:**

no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

No aspiration toxicity classification

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

No aspiration toxicity classification

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture 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.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available



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**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,94 mg/l  
End point: mortality  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

EC0 (Daphnia magna (Water flea)): 0,643 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

EC50 (Mysidopsis bahia (opossum shrimp)): 0,9893 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: yes  
Remarks: salt water

NOEC (Mysidopsis bahia (opossum shrimp)): 0,25 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: yes  
Remarks: salt water

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 0,110 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes

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Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)):  
0,0403 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 23 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 : > 811,5 mg/kg Trockengewicht mg/kg dry weight (d.w.)  
Exposure time: 28 d  
Test Type: Soil  
Analytical monitoring: yes  
Method: OECD 216  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC : 263,7 mg/kg Trockengewicht mg/kg dry weight (d.w.)  
Exposure time: 28 d  
Test Type: Soil  
Analytical monitoring: yes  
Method: OECD 216  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC: 0,21 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Analytical monitoring: yes  
Method: OECD Test Guideline 215  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,2 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes

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NOEC: 1,9 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to soil dwelling organisms

: Test Type: artificial soil  
LC50: > 410,6 mg/kg  
Exposure time: 14 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP:yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Test Type: artificial soil  
NOEC: 234,5 mg/kg  
Exposure time: 14 d  
End point: mortality  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP:yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Plant toxicity

: EC50: 340 mg/kg  
Exposure time: 20 d  
End point: Growth  
Species: Phaseolus vulgaris  
Analytical monitoring: yes  
Method: OECD Guide-line 208  
GLP:yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC: 90 mg/kg  
Exposure time: 20 d  
End point: Growth  
Species: Phaseolus vulgaris  
Analytical monitoring: yes  
Method: OECD Guide-line 208  
GLP:yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50: 300 mg/kg  
Exposure time: 19 d  
End point: Growth  
Species: Triticum aestivm (wheat)  
Analytical monitoring: yes

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Method: OECD Guide-line 208

GLP:yes

Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC: 51 mg/kg

Exposure time: 19 d

End point: Growth

Species: Triticum aestivm (wheat)

Analytical monitoring: yes

Method: OECD Guide-line 208

GLP:yes

Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity : Remarks: not available

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): 0,22 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): 7,92 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,098 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 215

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,004 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50:  
86,6 mg/kg dry weight (d.w.)  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

NOEC:  
8,83 mg/kg dry weight (d.w.)  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 1 mg/l  
Result: Partially biodegradable.  
Exposure time: 63 d  
Method: OECD Test Guideline 301C  
GLP: yes

Physico-chemical removability : Remarks: Biodegradable

Stability in water : Test Type: abiotic  
Degradation half life: 219 d  
pH: 4  
Hydrolysis: at 50 °C  
Method: OECD Test Guideline 111  
GLP: yes

Test Type: abiotic

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Degradation half life: > 200 d  
pH: 7  
Hydrolysis: at 50 °C  
Method: OECD Test Guideline 111  
GLP: yes

Test Type: abiotic  
Degradation half life: 145 d  
pH: 9  
Hydrolysis: at 50 °C  
Method: OECD Test Guideline 111  
GLP: yes

Photodegradation : Test Type: water  
Light source: Xenon lamp  
Light spectrum: 290 - 400 nm  
Degradation (direct photolysis): < 1,5 %  
GLP: yes

Test Type: air  
Method: calculated  
GLP: no  
Remarks: Decomposes rapidly in contact with light.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Method: OECD Test Guideline 301B

Photodegradation : Test Type: water  
Light source: Sunlight

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: no data available

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 56 d  
Concentration: 0,1 mg/l  
Bioconcentration factor (BCF): 6,62  
Method: OECD Test Guideline 305  
GLP: no  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)  
pH: 7

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Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Bioaccumulation : Bioconcentration factor (BCF): 3,6  
Method: calculated  
Remarks: Does not accumulate in organisms.

Partition coefficient: n-octanol/water : log Pow: -0,71 - 0,75  
Method: OECD Test Guideline 107  
GLP: yes

**12.4 Mobility in soil**

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
Koc: 235 - 566  
Method: Other

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Assessment : The substance is not identified as a PBT or as a vPvB substance.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

**12.6 Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture 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.

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**12.7 Other adverse effects**

**Product:**

Environmental fate and pathways : no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**Components:**

**1,2-Benzisothiazol-3(2H)-one:**

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

**5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1):**

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : This material and its container must be disposed of in a safe way.

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**SECTION 14: Transport information**

**Section 14.1. to 14.5.**

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

**14.6. Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.



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**SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

**Other regulations:**

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

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**SECTION 16: Other information**

**Full text of H-Statements**

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
EUH071	:	Corrosive to the respiratory tract.

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**Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : Observe national and local legal requirements

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