

**Colanyl Orange G 131**

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Substance key: 000000220594

Revision Date: 03.06.2022

Version : 4 - 2 / 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 Orange G 131**

**Material number:** 210058

**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)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

**2.2 Label elements**

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out

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of the workplace.  
P280 Wear protective gloves.

**Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazardous components which must be listed on the label:**

Rosin  
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)

**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**

Chemical nature : azo pigment  
dispersed in propylene glycol and water

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Rosin	8050-09-7 232-475-7 650-015-00-7	Skin Sens. 1; H317	>= 1 - < 10
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	>= 0,025 - < 0,05

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		<p>Aquatic Acute 1; H400 Aquatic Chronic 2; H411</p> <hr/> <p>M-Factor (Acute aquatic toxicity): 1</p> <hr/> <p>specific concentration limit Skin Sens. 1; H317 &gt;= 0,05 %</p>	
<p>5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)</p>	<p>55965-84-9 613-167-00-5 01-2120764691-48</p>	<p>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</p> <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>	<p>&gt;= 0,0002 - &lt; 0,0015</p>

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.

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If you feel unwell, seek medical advice (show the label where possible).

In case of skin contact : Wash off immediately with plenty of water.  
Consult a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms : sensitising effects  
Allergic reactions

Risks : May cause an allergic skin reaction.

**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  
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 fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

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**SECTION 6: Accidental release measures**

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

Personal precautions : Wear suitable protective equipment.

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**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., For personal protection see section 8., For disposal considerations see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : not required under normal use

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Not explosive  
Not combustible.

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.

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

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep away from flames and sparks. - 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.

**7.3 Specific end use(s)**

Specific use(s) : No further recommendations.

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

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Rosin CAS-No.: 8050-09-7	Workers	Inhalation	Long-term local effects	10 mg/m3
	Remarks:DNEL			
	Workers	Dermal	Long-term systemic effects	2,131 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Dermal	Long-term systemic effects	1,065 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	1,065 mg/kg bw/day
	Remarks:DNEL			
Propylene Glycol CAS-No.: 57-55-6	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	10 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	10 mg/m3
	Remarks:DNEL			
1,2-Benzisothiazol-3(2H)-one CAS-No.: 2634-33-5	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	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/m3
	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/m3
	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

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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
Rosin CAS-No.: 8050-09-7	Fresh water	0,002 mg/l
	Intermittent use/release	0,016 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	0,007 mg/kg dry weight (d.w.)
	Marine sediment	0,001 mg/kg dry weight (d.w.)
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

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		weight (d.w.)
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**8.2 Exposure controls**

**Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

Remarks : Nitrile rubber 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 : Wear suitable protective equipment.

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 : dispersion

Colour : orange

Odour : Product specific

Odour Threshold : not required

Melting point : Not applicable

Boiling point : 100 °C  
Based on water-content.

Upper explosion limit / upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Flash point : No flash point - Measure made up to the boiling point.

Decomposition temperature : > 100 °C  
with dehydration

pH : 6,7 (20 °C)  
Concentration: 100 %

Viscosity



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Viscosity, dynamic	:	200 mPa.s (23 °C)
Viscosity, kinematic	:	no data available
Solubility(ies)		
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	Not applicable
Relative density	:	no data available
Density	:	1,17 g/cm <sup>3</sup> (23 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

**9.2 Other information**

Explosives	:	no data available
Oxidizing properties	:	not oxidizing
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

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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:**

**Rosin:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

**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

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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.

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:**

**Rosin:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

**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

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**Serious eye damage/eye irritation**

**Product:**

Remarks : no data available

**Components:**

**Rosin:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

**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

**Respiratory or skin sensitisation**

**Product:**

Remarks : no data available

**Components:**

**Rosin:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

Remarks : By analogy with a product of similar composition

**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

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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:**

**Rosin:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 62 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Concentration: 2,5 - 55 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Concentration: 1,9 - 3500 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

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Germ cell mutagenicity-  
Assessment : It is concluded that the product is not mutagenic based on  
evaluation of several mutagenicity tests.

**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  
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.

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**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

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:**

**Rosin:**

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

**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.

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**Components:**

**Rosin:**

- Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (feed)  
Dose: 1000 - 3000 - 10000 ppm  
Duration of Single Treatment: 30 - 45 d  
General Toxicity - Parent: NOAEL: 248 - 309 mg/kg body weight  
General Toxicity F1: NOAEL: 248 - 309 mg/kg body weight  
Early Embryonic Development: NOAEL: 288 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes
- Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: oral (feed)  
Dose: 0, 2500, 5000, 7500 ppm  
Duration of Single Treatment: 16 d  
General Toxicity Maternal: NOAEL: 199,3 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 387,2 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes
- Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**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
- 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



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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

**Components:**

**Rosin:**

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, single exposure.

**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:**

**Rosin:**

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

**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:**

**Rosin:**

Species : Rat, male and female  
NOAEL : 335,2 - 401,2 mg/kg bw/day  
Application Route : oral (feed)  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 0, 2500, 5000, 7500 ppm  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : By analogy with a product of similar composition  
No significant adverse effects were reported

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**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  
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:**

**Rosin:**

No aspiration toxicity classification

**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

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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

**Components:**

**Rosin:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,7 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: By analogy with a product of similar composition

LL50 (Danio rerio (zebra fish)): 10 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 39,6 mg/l

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End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

NOEC (Pseudokirchneriella subcapitata (green algae)): 6,25 mg/l

End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): > 10.000 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.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**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

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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  
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

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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

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

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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  
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.



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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

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

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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:**

**Rosin:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 2 mg/l  
Result: Readily biodegradable.  
Biodegradation: 71 %  
Related to: Biochemical Oxygen Demand (BOD)  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

**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  
Degradation half life: > 200 d  
pH: 7  
Hydrolysis: at 50 °C

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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:**

**Rosin:**

Bioaccumulation : Species: Other  
Exposure time: 28 d  
Bioconcentration factor (BCF): 110 - 180  
Method: Other  
GLP: no

**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

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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  
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:**

**Rosin:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 0,876 - 5,37  
Method: estimated

**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:**

**Rosin:**

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

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

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

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**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.

**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:**

**Rosin:**

Environmental fate and pathways : not available

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

**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 : Dispose of in accordance with the European Directives on waste and hazardous waste.

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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.**

<b>ADR</b>	not restricted
<b>ADN</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	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)	: Conditions of restriction for the following entries should be considered: Number on list 3
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

Volatile organic compounds : Directive 2004/42/EC

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Volatile organic compounds (VOC) content: 17 %

**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.

**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.

**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

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- 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 : This product contains a diarylide pigment. This product should not be used in polymers if the processing temperature exceeds 200 °C because of possible thermal decomposition, which can form e.g. traces of aromatic amines. 3,3'-Dichlorobenzidine may be formed at temperatures above 200 °C. Pigment preparations based on pigments with Colour Index names "Pigment Orange 13" or "Pigment Orange 34" in combination with "Pigment Black 7" under standard conditions of textile printing can release an aromatic amine (3,3'-dichlorobenzidine, Carc.Cat. 2) at levels above the accepted industry standards and above the maximum levels set out by national legislation. Therefore, these pigment preparations cannot be recommended for textile printing applications without specific testing.

**Classification of the mixture:**

Skin Sens. 1

H317

**Classification procedure:**

Calculation method

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



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