

**Colanyl Oxide Green G 530**

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Substance key: 000000376590

Revision Date: 03.06.2022

Version : 2 - 2 / EU

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

**1.1. Product identifier**

**Trade name**

Colanyl Oxide Green G 530

**Material number:** 237556

**Chemical nature:** C.I. Pigment Green 17 in aqueous dispersion.

**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)**

Eye irritation, Category 2 H319: Causes serious eye irritation.

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.  
H319 Causes serious eye irritation.

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Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: 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:**

1,2-Benzisothiazol-3(2H)-one  
2-Methylisothiazolin-3-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.

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)
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 2,5 - < 3
2-Methylisothiazolin-3-one	2682-20-4 220-239-6 613-326-00-9 01-2120764690-50	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071	>= 0,0025 - < 0,025

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		<p>M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1</p> <p>specific concentration limit Skin Sens. 1A; H317 &gt;= 0,0015 %</p>	
5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)	<p>55965-84-9</p> <p>613-167-00-5</p> <p>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> <p>M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100</p> <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>	>= 0,0002 - < 0,0015

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 : Remove to fresh air.

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- In case of skin contact : Wash off immediately with plenty of water.  
Consult a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Consult a physician.
- 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 : sensitising effects  
irritant effects
- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.

**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 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.

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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.

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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.

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

Further information on storage conditions : Keep container tightly closed. - 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. Protect from extreme heat and cold

**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
C.I. Pigment Green	Workers	Inhalation	Acute local effects	2 mg/m <sup>3</sup>

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

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17 CAS-No.: 1308-38-9				
Remarks:DNEL				
	Workers	Inhalation	Long-term local effects	0,5 mg/m3
Remarks:DNEL				
	General population	Inhalation	Long-term local effects	0,5 mg/m3
Remarks:DNEL				
2-Methylisothiazolin-3-one CAS-No.: 2682-20-4	Workers	Inhalation	Long-term local effects	0,021 mg/m3
Remarks:DNEL				
	Workers	Inhalation	Acute local effects	0,043 mg/m3
Remarks:DNEL				
	Consumers	Inhalation	Long-term local effects	0,021 mg/m3
Remarks:DNEL				
	Consumers	Oral	Long-term systemic effects	0,027 mg/kg bw/day
Remarks:DNEL				
	Consumers	Oral	Acute systemic effects	0,053 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
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
C.I. Pigment Green 17 CAS-No.: 1308-38-9	Fresh water	0,0047 mg/l
Remarks:chromium		
	salt water	0,0047 mg/l
Remarks:chromium		
	Water (intermittent release)	0,0047 mg/l

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	Remarks:chromium	
	Sewage treatment plant	10 mg/l
	Fresh water sediment	18,2 mg/kg dry weight (d.w.)
	Remarks:chromium	
	Marine sediment	1,31 mg/kg dry weight (d.w.)
	Remarks:chromium	
	Soil	3,2 mg/kg dry weight (d.w.)
	Remarks:chromium	
2-Methylisothiazolin-3-one CAS-No.: 2682-20-4	Fresh water	0,0039 mg/l
	Marine water	0,0039 mg/l
	Sewage treatment plant	0,23 mg/l
	Soil	0,047 mg/kg dry weight (d.w.)
	Intermittent use/release	0,0039 mg/l
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.)

**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 : Yes, if TLV value is exceeded  
Use respiratory protection for organic vapours.

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	:	green
Odour	:	not specified
Odour Threshold	:	not required
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	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 100 °C with dehydration
pH	:	7,5 (20 °C) Concentration: 100 % Determined in the undiluted form
Viscosity		
Viscosity, dynamic	:	1.000 - 1.700 mPa.s (20 °C)
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	2,55 g/cm <sup>3</sup> (20 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

**9.2 Other information**



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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.

**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 : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Components:**

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

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Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**2-Methylisothiazolin-3-one:**

Acute oral toxicity : LD50 (Rat): 285,5 mg/kg  
Method: OECD Test Guideline 401

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Assessment: Corrosive to the respiratory tract.

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

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

**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:**

**2-Methylisothiazolin-3-one:**

Species : Rabbit

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Method : OECD Test Guideline 404  
Result : Causes burns.

**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:**

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Result : Risk of serious damage to eyes.

**2-Methylisothiazolin-3-one:**

Result : Risk of serious damage to eyes.  
Remarks : By analogy with a product of similar composition

**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:**

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Assessment : Harmful if swallowed., Causes serious eye damage.

**2-Methylisothiazolin-3-one:**

Test Type : Buehler Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitiser, sub-category 1A.

Assessment : Toxic if swallowed., Fatal if inhaled., Causes severe skin burns and eye damage.

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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:**

**2-Methylisothiazolin-3-one:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: mammalian cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Micronucleus test  
Test system: mammalian cells  
Metabolic activation: with and without metabolic activation  
Result: negative

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

**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

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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:**

**2-Methylisothiazolin-3-one:**

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

**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:**

**2-Methylisothiazolin-3-one:**

Effects on fertility : Remarks: This information is not available.

Effects on foetal  
development : Remarks: Based on available data, the classification criteria  
are not met.

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):**

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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:**

**2-Methylisothiazolin-3-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.

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**STOT - repeated exposure**

**Product:**

Remarks : no data available

**Components:**

**2-Methylisothiazolin-3-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:**

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

**2-Methylisothiazolin-3-one:**

Species : Rat  
NOAEL : 25 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Remarks : By analogy with a product of similar composition

**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

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**Components:**

**2-Methylisothiazolin-3-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**

**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:**

**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

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

**2-Methylisothiazolin-3-one:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,77 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,934 mg/l  
End point: mortality  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0104 mg/l  
End point: Biomass  
Exposure time: 96 h



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Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 0,063 mg/l

End point: Biomass

Exposure time: 96 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (Bacteria): 31,7 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: no data available
M-Factor (Chronic aquatic toxicity)	:	1

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very 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

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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

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:**

**2-Methylisothiazolin-3-one:**

Biodegradability : Test Type: aerobic  
Result: Not rapidly biodegradable

**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

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**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: no data available

**Components:**

**2-Methylisothiazolin-3-one:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**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:**

**2-Methylisothiazolin-3-one:**

Distribution among environmental compartments : Remarks: no data available

**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:**

**2-Methylisothiazolin-3-one:**

Assessment : Remarks: no data available

**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**

no data available

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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:**

**2-Methylisothiazolin-3-one:**

Environmental fate and pathways : no data available

**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.**

<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

**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.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful 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 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

**Classification of the mixture:**

Eye Irrit. 2 H319  
Skin Sens. 1 H317

**Classification procedure:**

Calculation method  
Calculation method

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties,

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



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