

**Colanyl Oxide Blue COR 100**

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Substance key: SXR050278

Revision Date: 03.06.2022

Version : 3 - 1 / 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 Blue COR 100**

**Material number:** 107120

**Chemical nature:** C.I. Pigment Blue 28 in aqueous dispersion containing 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 : Industrial Performance Chemicals  
Paints, lacquers and varnishes industry  
Polymers industry  
Type of use : Colourant preparation

**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.

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)
Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts	Not Assigned  01-2119982398-19	Eye Irrit. 2; H319	>= 1 - < 10
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  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100  specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	>= 0,0002 - < 0,0015

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  
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.

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

Further information on storage conditions : Keep container tightly closed and in a well-ventilated place.

Keep away from heat.

- 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
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			
Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts	Workers	Inhalation	Long-term systemic effects	441 mg/m <sup>3</sup>
	Remarks:DNEL			
	Workers	Skin contact	Long-term systemic effects	938 mg/kg bw/day
	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	130 mg/m <sup>3</sup>
	Remarks:DNEL			
	General population	Skin contact	Long-term systemic effects	563 mg/kg bw/day
	Remarks:DNEL			
	General population	Ingestion	Long-term systemic effects	12,5 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>
	Remarks:DNEL			
	Workers	Inhalation	Acute local effects	0,04 mg/m <sup>3</sup>
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	0,02 mg/m <sup>3</sup>
	Remarks:DNEL			
	Consumers	Inhalation	Acute local effects	0,04 mg/m <sup>3</sup>
	Remarks:DNEL			

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	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.)
	Soil	50 mg/kg dry weight (d.w.)
Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts	Fresh water	10 µg/l
	Marine water	1 µg/l
	Water (intermittent release)	100 µg/l
	Sewage treatment plant	12,04 mg/l
	Fresh water sediment	72,336 mg/kg
	Marine sediment	7,2336 mg/kg
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

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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  
Filter A (organic gases and vapours) to standard DIN EN 141
- 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 : blue
- 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 : > 600 °C  
Method: DIN 51794
- Decomposition temperature : > 100 °C  
with dehydration
- pH : approx. 8,2 (20 °C)  
Suspension in water
- Viscosity
- Viscosity, dynamic : 700 - 1.300 mPa.s (23 °C)
- Viscosity, kinematic : no data available
- Solubility(ies)
- Water solubility : (20 °C)  
miscible
- Partition coefficient: n- : not determined

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octanol/water

Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	approx. 2,1 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
Self-ignition	:	no data available
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 : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Components:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Acute oral toxicity : LD50 (Rat, male): ca. 6.500 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : Remarks: not required

Acute dermal toxicity : LD50 (Rabbit): > 3.500 mg/kg  
Method: OECD Test Guideline 402  
GLP: no  
Assessment: The substance or mixture has no acute dermal toxicity

**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

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**Components:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Species : reconstructed human epidermis (RhE)  
Exposure time : 20 min  
Method : OECD Test Guideline 439  
Result : No skin irritation  
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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Result : Irritating to eyes.

**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Test Type : Patch Test 24 Hrs.  
Exposure routes : Skin contact  
Species : Humans  
Method : Draize Test  
Result : Does not cause skin sensitisation.  
GLP : no

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**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Concentration: 125 - 1000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 31,6 - 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: Chinese hamster lung cells  
Concentration: 15,63 - 1000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

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

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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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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.

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**Components:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Effects on fertility : Species: Rat, male and female  
Application Route: oral (feed)  
Dose: 0,1 - 0,5 - 1 % in diet  
General Toxicity - Parent: NOAEL: ca. 75 mg/kg body weight  
General Toxicity F1: NOAEL: ca. 750 mg/kg body weight  
General Toxicity F2: NOAEL: ca. 750 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes  
Remarks: By analogy with a product of similar composition

Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: oral (gavage)  
Dose: 100 - 300 - 1000 mg/kg  
General Toxicity - Parent: NOAEL: >= 1.000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 1 - 2 % in diet  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEL: 1.074 mg/kg body weight  
Developmental Toxicity: NOAEL: 1.074 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: no

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**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

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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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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

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**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Species : Rat, male and female  
NOAEL : 500 mg/kg  
Application Route : oral (feed)  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 500 - 2000 - 4000 - 8000 mg/kg  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : No information available.

Application Route : Inhalation  
Remarks : This information is not available.

Application Route : Skin contact  
Remarks : This information is not available.

**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

No aspiration toxicity classification

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**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 52 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC (Daphnia magna (Water flea)): 25 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202



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- GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): 1.204 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
- Toxicity to soil dwelling organisms : Remarks: Not applicable
- Plant toxicity : Remarks: Not applicable
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

**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

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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

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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Biodegradability : Test Type: aerobic

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Inoculum: activated sludge  
Concentration: 20 mg TOC/l  
Result: Readily biodegradable.  
Biodegradation: 63 %  
Related to: Carbon dioxide (CO<sub>2</sub>)  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

Physico-chemical  
removability : Remarks: Biodegradable

Stability in water : Remarks: Not applicable

**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 4,86  
Method: calculated

**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

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

**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

**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:**

**Aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts:**

Environmental fate and pathways : not available

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

**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) : 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 : Not applicable

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import of dangerous chemicals

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

**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.  
H310 : Fatal in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H400 : Very toxic to aquatic life.  
H410 : Very 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  
Eye Irrit. : Eye irritation  
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 -

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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; TECl - 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

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, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application. Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Heubach.

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