

**Colanyl Red FGR 131**

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Substance key: 000000119050

Revision Date: 13.10.2022

Version : 4 - 2 / EU

Date of printing : 12.12.2022

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

**1.1. Product identifier**

**Trade name**

Colanyl Red FGR 131

**Material number:** 187202

**Chemical nature:** C.I Pigment Red 112 in aqueous dispersion containing propylene glycol.

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

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

Industry sector : Varnish industry  
Plastic processing industry.  
Printing Inks Industry  
Techno-chemical industry.

Type of use : Colouring agent

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

**Identification of the company**

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

**Information about the substance/mixture**

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

**1.4. Emergency telephone number**

00800-5121 5121 (24 h)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Not a hazardous substance or mixture.

**2.2 Label elements**

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

Not a hazardous substance or mixture.

**Additional Labelling**

EUH210 Safety data sheet available on request.

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

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**2.3 Other hazards**

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No hazards to be specially mentioned.

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

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
C11-Oxo alcohol-heptaglycol ether sulphate, sodium salt	219756-63-5	Skin Irrit. 2; H315 Eye Dam. 1; H318  specific concentration limit Eye Irrit. 2; H319 3 - 28 % Eye Dam. 1; H318 > 28 % Skin Irrit. 2; H315 > 28 %	>= 1 - < 3
3-hydroxy-2'-methyl-2-naphthanilide	135-61-5 205-205-0	Skin Sens. 1A; H317 Skin Sens. 1; H317 Aquatic Chronic 2; H411 Aquatic Chronic 2; H411  specific concentration limit Skin Sens. 1A; H317 > 1 %	>= 0,25 - < 1
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1;	>= 0,0025 - < 0,025

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		<p>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 : Remove to fresh air.

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- 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  
Do NOT induce vomiting.

**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>)  
Sulphur dioxide  
Hydrogen chloride

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : Self-contained breathing apparatus
- Further information : Wear full protective clothing and 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 : - 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			

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	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	10 mg/m3
	Remarks:DNEL			
C.I. Pigment Red 112 CAS-No.: 6535-46-2	Workers	Dermal	Long-term systemic effects	42 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	49 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	3 mg/m3
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	25 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			
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

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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.)
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.)
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.)
	Soil	3 mg/kg dry weight (d.w.)

**8.2 Exposure controls**

**Engineering measures**

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

**Personal protective equipment**

Eye/face 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

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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 : red
- Odour : not specified
- Odour Threshold : not required
- Melting point : Not applicable
- Boiling point : approx. 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 : not determined
- Decomposition temperature : > 100 °C  
with dehydration
- pH : 6 - 7  
Concentration: 100 %
- Viscosity
- Viscosity, dynamic : 300 - 1.300 mPa.s (23 °C)
- Viscosity, kinematic : not determined
- Solubility(ies)
- Water solubility : miscible
- Partition coefficient: n-octanol/water : not determined
- Vapour pressure : not determined



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Relative density	:	no data available
Density	:	1,18 g/cm <sup>3</sup>
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

**9.2 Other information**

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

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable

**10.3 Possibility of hazardous reactions**

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

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**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 inhalation toxicity : Remarks: no data available

**Components:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Acute oral toxicity : LD0 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

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

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

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

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

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

Acute oral toxicity : LD50 (Rat): 64 mg/kg  
  
Acute toxicity estimate: Method: Calculation method

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

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

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

Acute toxicity estimate: Method: Calculation method

**Skin corrosion/irritation**

**Product:**

Remarks : no data available

**Components:**

**C11-Oxo alcohol-heptaglycol ether sulphate, sodium salt:**

Result : Irritating to skin.

**3-hydroxy-2'-methyl-2-naphthanilide:**

Species : Rabbit  
Exposure time : 4 h  
Method : Directive 67/548/EEC, Annex V, B.4.  
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

**Serious eye damage/eye irritation**

**Product:**

Remarks : no data available

**Components:**

**C11-Oxo alcohol-heptaglycol ether sulphate, sodium salt:**

Result : Risk of serious damage to eyes.

**3-hydroxy-2'-methyl-2-naphthanilide:**

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Species : Rabbit  
Exposure time : 24 h  
Method : Regulation (EC) No. 440/2008, Annex, B.5  
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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitiser, sub-category 1A.  
GLP : yes

Assessment : May cause sensitisation by skin contact.

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

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

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

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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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 4 - 10000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

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

**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

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

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

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

Germ cell mutagenicity-  
Assessment : Weight of evidence does not support classification as a germ  
cell mutagen.

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

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

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

Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Exposure time: <= 5 d  
Dose: 1-5 x <= 20 - 30 mg/kg  
Result: negative

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

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Components:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Carcinogenicity -  
Assessment : No information available.

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

Carcinogenicity -  
Assessment : No information available.

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

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

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**Components:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Reproductive toxicity -  
Assessment : No information available.

**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

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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  
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.



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**STOT - single exposure**

**Product:**

Remarks : no data available

**Components:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

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

**3-hydroxy-2'-methyl-2-naphthanilide:**

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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Remarks : no data available

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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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

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 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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,33 - 3,25 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,108 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: No toxicity at the limit of solubility
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0,711 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: No toxicity at the limit of solubility
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
End point: Bacteria toxicity (respiration inhibition)

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Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes

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

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

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting 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  
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

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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  
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.

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- 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  
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

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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.

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

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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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 32,3 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 12 %



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Related to: Carbon dioxide (CO<sub>2</sub>)  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
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 : Remarks: Biodegradable  
removability

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  
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

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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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

Partition coefficient: n-  
octanol/water : log Pow: 2,55 (23 °C)  
pH: 7  
Method: OECD Test Guideline 107

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

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

Partition coefficient: n-  
octanol/water : log Pow: 0,7 (20 °C)  
pH: 7  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

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

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

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

**12.4 Mobility in soil**

**Components:**

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

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

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**12.5 Results of PBT and vPvB assessment**

**Product:**

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

**Components:**

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

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

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

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

**12.6 Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**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:**

**3-hydroxy-2'-methyl-2-naphthanilide:**

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

**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.

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**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.

---

**SECTION 14: Transport information**

**Section 14.1. to 14.5.**

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

**14.6. Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

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

No transport as bulk according IBC - Code.

---

**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

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Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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

**Other regulations:**

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

**15.2 Chemical safety assessment**

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

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**SECTION 16: Other information**

**Full text of H-Statements**

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

**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; AIIIC - 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 -

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

**Further information**

Other information : Observe national and local legal requirements

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