

Colanyl Red FGRG 130

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Substance key: 000000118677

Revision Date: 04.10.2022

Version : 6 - 0 / EU

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

1.1. Product identifier

Trade name

Colanyl Red FGRG 130

Material number: 187155

Chemical nature: C.I. Pigment Red 112 in aqueous dispersion containing propylenglycol

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)

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
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1 307-055-2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 specific concentration limit Skin Irrit. 2; H315 > 10 % Eye Irrit. 2; H319 > 10 - 15 % Eye Dam. 1; H318 > 15 % Acute Tox. 4; H302 > 60 %	>= 1 - < 2,5
3-hydroxy-2'-methyl-2-	135-61-5	Skin Sens. 1A; H317	>= 0,25 - < 1

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naphthanilide	205-205-0	Skin Sens. 1; H317 Aquatic Chronic 2; H411 Aquatic Chronic 2; H411	
		specific concentration limit Skin Sens. 1A; H317 > 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; H400 Aquatic Chronic 2; H411	>= 0,0025 - < 0,025
		M-Factor (Acute aquatic toxicity): 1	
		specific concentration limit Skin Sens. 1; H317 >= 0,05 %	
5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)	55965-84-9 613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071	>= 0,0002 - < 0,0015
		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 %	

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		Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	
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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.
- 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet
Dry powder
Carbon dioxide (CO₂)
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 (CO₂)
Nitrogen oxides (NO_x)
Sulphur dioxide

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Hydrogen chloride

5.3 Advice for firefighters

Special protective equipment : Self-contained breathing apparatus
for firefighters

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.

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 : Normal measures for preventive fire protection.
fire and explosion

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 : - sensitive to frost - In case of the product becoming opaque,
storage conditions 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/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	10 mg/m3
Remarks:DNEL				
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	10 mg/m3
Remarks:DNEL				
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			
	Sulfonic acids, C14-17-sec-alkane, sodium salts CAS-No.: 97489-15-1	Workers	Dermal	Acute local effects
Remarks:DNEL				
Workers		Dermal	Long-term systemic effects	5 mg/kg bw/day
Remarks:DNEL				
	Workers	Inhalation	Long-term systemic effects	35 mg/m3
	Remarks:DNEL			
	Workers	Dermal	Long-term local effects	2,8 mg/cm2
Remarks:DNEL				
	General population	Dermal	Acute local effects	2,8 mg/cm2
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	3,57 mg/kg bw/day

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

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	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	12,4 mg/m3
	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	7,1 mg/kg bw/day
	Remarks:DNEL			
	General population	Dermal	Long-term local effects	2,8 mg/cm2
	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
	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.)

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	Marine sediment	57,2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS-No.: 97489-15-1	Fresh water	0,04 mg/l
	salt water	0,004 mg/l
	Water (intermittent release)	0,06 mg/l
	Fresh water sediment	9,4 mg/kg dry weight (d.w.)
	Marine sediment	0,94 mg/kg dry weight (d.w.)
	Soil	9,4 mg/kg dry weight (d.w.)
	Sewage treatment plant	600 mg/l
	Oral	53,3 mg/kg food
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

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 workplace conditions (mechanical strain, duration of contact).

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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.

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)

Flammability : Not applicable

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 : 7,3
Concentration: 100 %

Viscosity
Viscosity, dynamic : 300 - 1.300 mPa.s (23 °C)

Viscosity, kinematic : no data available

Solubility(ies)
Water solubility : miscible

Partition coefficient: n-octanol/water : not determined

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Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	1,19 g/cm ³
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

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:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 500 - 2.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Mouse, female): > 2.000 mg/kg
Method: Other
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity

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

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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.

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.

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes

|| 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

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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

Components:

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

Result : Risk of serious damage to eyes.

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : yes

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

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

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Respiratory or skin sensitisation

Components:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : no

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

|| 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.

|| 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.

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Strain: NMRI
Application Route: oral (gavage)
Method: OECD Test Guideline 474
Result: negative
GLP: no

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

In vivo tests did not show mutagenic effects

|| 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

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

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

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

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

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

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

**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.

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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:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rat, male and female
Application Route : oral (feed)
Exposure time : 2 Years
Dose : 0, 0,08, 0,4 ,2 % in diet
Frequency of Treatment : 1 daily
LOAEL : 1.000 mg/kg body weight
Method : Other
Result : negative
GLP : no

Carcinogenicity -
Assessment : Not classifiable as a human carcinogen.

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

Carcinogenicity -
Assessment : No information available.

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

Carcinogenicity -
Assessment : No information available.

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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:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Strain: CD1
Application Route: oral (feed)
Dose: 1000, 3000, 10000 in diet parts per million
Duration of Single Treatment: > 60 d
Frequency of Treatment: 1 daily
Teratogenicity: NOEL: >= 10.000 ppm
Embryo-foetal toxicity: NOEL: >= 10.000 ppm
Method: Other
GLP: no

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
Did not show teratogenic effects in animal experiments.

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
Method: Other
GLP: yes

Effects on foetal : Species: Rat, female

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Components:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

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

|| 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:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

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

|| 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.

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Components:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rat, male and female
NOAEL : 200 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 52 weeks
Number of exposures : daily
Dose : 0, 0,08, 0,4, 2% in diet
Control Group : yes
Method : Other
GLP : no

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

Remarks : no data available

|| 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:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

no data available

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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.

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:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,4 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9,8 mg/l

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aquatic invertebrates	End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: ErC50 (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	: NOEC (Pseudomonas putida): 1.000 mg/l Exposure time: 16 h Test Type: static test Method: DIN 38 412 Part 8 GLP: no
Toxicity to fish (Chronic toxicity)	: NOEC: 0,85 mg/l End point: mortality Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 204 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 1 mg/l End point: Reproduction rate Exposure time: 22 d Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to soil dwelling organisms	: Test Type: artificial soil NOEC: 470 mg/kg Exposure time: 56 d End point: Reproduction Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222 GLP: yes
Sediment toxicity	: NOEC: 1000 mg/kg dry weight (d.w.) Analytical monitoring: no Solvent: yes Duration: 96 h Species: Nematode Caenorhabditis elegans Method: Draft ISO/DIS 10872 (2008) GLP: yes

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Ecotoxicology Assessment

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

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)
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.

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

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

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

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

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

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

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

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 0,110 mg/l
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

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

M-Factor (Acute aquatic toxicity) : 1

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

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

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

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

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

NOEC: 1,9 mg/l
End point: Reproduction rate

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Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

Toxicity to soil dwelling organisms

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

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

Plant toxicity

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

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

EC50: 300 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivm (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal

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concentration.

NOEC: 51 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivm (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity : Remarks: not available

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

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

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

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

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

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

M-Factor (Acute aquatic toxicity) : 100

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

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

Toxicity to daphnia and other aquatic invertebrates : NOEC: 0,004 mg/l
Exposure time: 21 d

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(Chronic toxicity) 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: Not applicable

Components:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 103 mg/l
Result: Readily biodegradable.
Biodegradation: 78 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

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

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 32,3 mg/l
Result: Not readily biodegradable.
Biodegradation: 12 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

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

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 1 mg/l
Result: Partially biodegradable.
Exposure time: 63 d
Method: OECD Test Guideline 301C
GLP: yes
- Physico-chemical
removability : Remarks: Biodegradable
- Stability in water : Test Type: abiotic
Degradation half life: 219 d
pH: 4
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
- Test Type: abiotic
Degradation half life: > 200 d
pH: 7
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
- Test Type: abiotic
Degradation half life: 145 d
pH: 9
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
- Photodegradation : Test Type: water
Light source: Xenon lamp
Light spectrum: 290 - 400 nm
Degradation (direct photolysis): < 1,5 %
GLP: yes
- Test Type: air
Method: calculated
GLP: no
Remarks: Decomposes rapidly in contact with light.

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

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not rapidly biodegradable
Method: OECD Test Guideline 301B
- Photodegradation : Test Type: water
Light source: Sunlight

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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:

|| Sulfonic acids, C14-17-sec-alkane, sodium salts:

Distribution among
environmental compartments : adsorption
Medium: Soil
Kd: 20 - 75
Method: OECD Test Guideline 106
Remarks: immobile

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

Distribution among : Adsorption/Soil

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

Environmental fate and pathways : not available

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

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

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

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 : Not applicable

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Concern for Authorisation (Article 59).

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.

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.
H412 : Harmful 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

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



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