

Flexonyl Red SP-FGR

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Substance key: 000000314683

Revision Date: 27.10.2022

Version : 6 - 0 / EU

Date of printing : 06.03.2023

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

1.1. Product identifier

Trade name

Flexonyl Red SP-FGR

Material number: 230732

Chemical nature:

C.I. Pigment Red 112 in aqueous dispersion containing glycerine.

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

Relevant identified uses of the substance or mixture

Industry sector : Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Toys manufacture
Office supplies
Type of use : Colourant preparation

1.3. Details of the supplier of the safety data sheet

Identification of the company

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

Information about the substance/mixture

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

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard,
Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

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

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.	Classification	Concentration (% w/w)
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	Index-No. Registration number		
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 %	>= 3 - < 10
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
Cetyltrimethyl ammonium chloride	112-02-7 203-928-6	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
Biphenyl-2-ol	90-43-7 201-993-5 604-020-00-6 01-2119511183-53	Skin Irrit. 2; H315 Skin Irrit. 2; H315 Eye Dam. 1; H318 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Aquatic Chronic 1;	>= 0,1 - < 0,25

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<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>H410 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 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %</p>	<p>>= 0,0002 - < 0,0015</p>
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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 immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult a physician.
- If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

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4.2 Most important symptoms and effects, both acute and delayed

Risks : No additional hazards are known except those derived from the labelling.

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
Hydrogen chloride

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.
Avoid contact with skin and eyes.
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".

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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 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
C.I. Pigment 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			
Glycerine CAS-No.: 56-81-5	Workers	Inhalation	Long-term local effects	220 mg/m3

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	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	132 mg/m3
	Remarks:DNEL			
Biphenyl-2-ol CAS-No.: 90-43-7	Workers	Inhalation	Long-term systemic effects	19,25 mg/m3
	Remarks:DNEL			
	Workers	Dermal	Long-term systemic effects	21,84 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Remarks:DNEL			
	Consumers	Dermal	Long-term systemic effects	0,4 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	0,4 mg/kg bw/day
	Remarks:DNEL			
5-Chloro-2-methyl- 2,3-dihydroisothiazol- 3-one and 2-Methyl- 2,3-dihydroisothiazol- 3-one (3:1) CAS-No.: 55965-84-9	Workers	Inhalation	Long-term local effects	0,02 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Acute local effects	0,04 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	0,02 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute local effects	0,04 mg/m3
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	0,09 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Acute systemic effects	0,11 mg/kg bw/day
	Remarks:DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycerine CAS-No.: 56-81-5	Sewage treatment plant	1000 mg/l
Biphenyl-2-ol CAS-No.: 90-43-7	Fresh water	0,001 mg/l
	Intermittent use/release	0,027 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	0,56 mg/l
	Fresh water sediment	0,128 mg/kg dry weight (d.w.)
	Marine water	0,013 mg/kg dry weight (d.w.)

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	Soil	2,5 mg/kg dry weight (d.w.)
	Oral	1,87 mg/kg food
Cetyltrimethyl ammonium chloride CAS-No.: 112-02-7	Fresh water	0,00042 mg/l
	Water (intermittent release)	0,00012 mg/l
	salt water	0,000042 mg/l
	Sewage treatment plant	0,4 mg/l
	Fresh water sediment	68 mg/kg dry weight (d.w.)
	Marine sediment	6,8 mg/kg dry weight (d.w.)
	Soil	0,4 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.)

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).

Skin and body protection : Wear suitable protective equipment.

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

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Colour	:	red
Odour	:	not specified
Odour Threshold	:	not required
Melting point	:	Not applicable
Boiling point	:	approx. 100 °C
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 100 °C
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 100 °C with dehydration
pH	:	9,1 (25 °C) Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	730 mPa.s (23 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	1,22 g/cm ³ (20 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

9.2 Other information

Explosives	:	no data available
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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.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Components:

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

Acute oral toxicity : LD0 (Rat, female): > 5.000 mg/kg
Method: OECD Test Guideline 401

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GLP: no

Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Cetyltrimethyl ammonium chloride:

Acute oral toxicity : LD50 (Rat, male and female): 699 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity
Remarks: not reasonable

Biphenyl-2-ol:

Acute oral toxicity : LD50 (Rat, male and female): 2.733 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male): >949 mg/m³
Exposure time: 1 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no
Assessment: The substance or mixture has no acute inhalation toxicity

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

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

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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

|| Cetyltrimethyl ammonium chloride:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure
GLP : yes
Remarks : By analogy with a product of similar composition

|| Biphenyl-2-ol:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
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

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Components:

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

Result : Risk of serious damage to eyes.

|| 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

|| Cetyltrimethyl ammonium chloride:

Species : Rabbit
Method : Other
Result : Risk of serious damage to eyes.

|| Biphenyl-2-ol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : no

|| 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.

|| Cetyltrimethyl ammonium chloride:

Test Type : Buehler Test

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Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : no

Assessment : Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage.

Biphenyl-2-ol:

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

Assessment : Causes skin irritation., Causes serious eye damage.

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- : In vitro tests did not show mutagenic effects

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Assessment

|| Cetyltrimethyl ammonium chloride:

- Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
- Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
- Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
- Genotoxicity in vivo : Remarks: no data available
- Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects

|| Biphenyl-2-ol:

- Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
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: Chinese hamster ovary cells
Method: OECD Test Guideline 473
Result: negative
GLP: no
- Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Method: OECD Test Guideline 482
Result: negative
GLP: no
- Genotoxicity in vivo : Test Type: Micronucleus test
Species: Rat (male)
Strain: Fischer F344

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Application Route: oral (feed)
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

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

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

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

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Rat
Cell type: Bone marrow
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:

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

Carcinogenicity -
Assessment : No information available.

Cetyltrimethyl ammonium chloride:

Remarks : This information is not available.

Carcinogenicity -
Assessment : Not classifiable as a human carcinogen.

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Biphenyl-2-ol:

Species : Rat, male
Application Route : Oral
Exposure time : 448 d
NOAEL : 20.000 mg/kg food
Result : negative

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

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.

Cetyltrimethyl ammonium chloride:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)
General Toxicity - Parent: NOAEL: 61 mg/kg body weight
General Toxicity F1: NOAEL: 96 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Strain: Sprague-Dawley
Application Route: Dermal
Dose: 18,75- 37,5- 75 mg/kg bw/day
General Toxicity Maternal: NOAEL: 75 mg/kg body weight
Developmental Toxicity: NOAEL: 75 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Test Type: Pre-natal
Species: Rat, female
Strain: NZW
Application Route: Dermal

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Dose: 0-0,5-1,0-2,0 mg/kg bw/day
General Toxicity Maternal: NOAEL: 40 mg/kg body weight
Developmental Toxicity: NOAEL: 40 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Biphenyl-2-ol:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Strain: Sprague-Dawley
Application Route: oral (feed)
Dose: 20, 100, and 500 mg/kg bw/day
General Toxicity - Parent: NOAEL: 100 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Strain: wistar
Application Route: oral (gavage)
Dose: 150, 300, 600, 1200 mg/kg bw/
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 150 mg/kg body weight
Teratogenicity: NOAEL: 300 mg/kg body weight
Method: OECD Test Guideline 414
Result: Not classified
GLP: no

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

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Method: OECD Test Guideline 416

GLP: yes

Effects on foetal development : Species: Rat, male and female
Application Route: oral (gavage)
Dose: <= 15 mg/kg
Developmental Toxicity: NOAEL: 15 mg/kg body weight
Method: Other

Species: Rat, male and female
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: <= 3,95 mg/kg body weight
Method: Other

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity
Embryotoxicity classification not possible from current data.

STOT - single exposure

Product:

Remarks : no data available

Components:

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

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

|| Cetyltrimethyl ammonium chloride:

Remarks : no data available

|| Biphenyl-2-ol:

Assessment : May cause respiratory irritation.

|| 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

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organ toxicant, repeated exposure.

Cetyltrimethyl ammonium chloride:

Remarks : no data available

Biphenyl-2-ol:

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

Cetyltrimethyl ammonium chloride:

Species : Rat, male and female
NOAEL : 113 mg/kg
Application Route : Oral
Exposure time : 90d
Dose : 22, 113 and 273 mg/kg bw/day
Method : OECD Test Guideline 408
Remarks : By analogy with a product of similar composition

Species : Rabbit, male and female
NOAEL : 10 mg/kg
Application Route : Dermal
Exposure time : 21/28d
Number of exposures : 6,5 to 7 hours
Dose : 0 or 10 mg/kg/day
Method : OECD Test Guideline 410
GLP : yes
Symptoms : Necrosis

Biphenyl-2-ol:

Species : Rabbit, female
NOAEL : 100 mg/kg bw/day
Application Route : oral (gavage)
Exposure time : 13 d
Method : Other

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GLP : no

Species : Rat, male and female
NOAEL : ≥ 100 mg/kg bw/day
Application Route : Dermal
Exposure time : 21 d
Number of exposures : once daily on 5 days/week
Dose : 100, 500, and 1000 mg/kg bw/da
Control Group : yes
Method : OECD Test Guideline 410
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

Cetyltrimethyl ammonium chloride:

no data available

Biphenyl-2-ol:

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

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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:

|| 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

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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.

Cetyltrimethyl ammonium chloride:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 0,210 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,012 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 0,113 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

EC10 (Selenastrum capricornutum (green algae)): 0,068 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

M-Factor (Acute aquatic toxicity) : 10

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- Toxicity to microorganisms : EC50 : 130 mg/kg dry weight (d.w.)
Exposure time: 28 d
Test Type: Soil
Method: OECD 216
GLP: yes
Remarks: By analogy with a product of similar composition
- EC10 : 70 mg/kg dry weight (d.w.)
Exposure time: 28 d
Test Type: Soil
Method: OECD 216
GLP: yes
Remarks: By analogy with a product of similar composition
- EC50 (Pseudomonas putida): 0,96 mg/l
Exposure time: 16 h
Test Type: static test
Method: Other
- Toxicity to fish (Chronic toxicity) : NOEC: 0,0322 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Method: Other
Remarks: By analogy with a product of similar composition
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00415 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: static test
Method: OECD Test Guideline 211
GLP: yes
Remarks: By analogy with a product of similar composition
- M-Factor (Chronic aquatic toxicity) : 1
- Plant toxicity : EC50: 537 mg/kg
End point: Growth
Test period: 16 d
Species: Sinapis alba
Method: OECD Guide-line 208
GLP:yes
Remarks: By analogy with a product of similar composition

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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- Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 2,95 mg/l
Exposure time: 96 d
Method: OECD Test Guideline 203
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,71 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0,98 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): 56 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: no
- Toxicity to fish (Chronic toxicity) : NOEC: 0,036 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,009 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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

- Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): 0,22 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to microorganisms : EC50 (activated sludge): 7,92 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 0,098 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 215
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,004 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- M-Factor (Chronic aquatic toxicity) : 100
- Toxicity to soil dwelling organisms : LC50:
86,6 mg/kg dry weight (d.w.)
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
- NOEC:
8,83 mg/kg dry weight (d.w.)
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

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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 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

|| Cetyltrimethyl ammonium chloride:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: ca. 93,5 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: ca. 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Photodegradation : Rate constant: 3E-11 cm³/s
Method: calculated

|| Biphenyl-2-ol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 1 mg/l
Result: Readily biodegradable.
Biodegradation: 70,8 - 75,7 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B

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GLP: yes

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

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not rapidly biodegradable
Method: OECD Test Guideline 301B

Photodegradation : Test Type: water
Light source: Sunlight

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

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

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

Cetyltrimethyl ammonium chloride:

Bioaccumulation : Bioconcentration factor (BCF): 70,8
Method: calculated
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 3,08 (25 °C)
Method: calculated

Biphenyl-2-ol:

Bioaccumulation : Bioconcentration factor (BCF): 21,7

Partition coefficient: n-octanol/water : log Pow: 2,5 (25 °C)
pH: 7
Method: OECD Test Guideline 117
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

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12.4 Mobility in soil

Components:

|| Cetyltrimethyl ammonium chloride:

Distribution among environmental compartments : Medium: Soil
log Koc: 5,5 - 6,4
Kd: 13.630 ml/g

Stability in soil : Dissipation time: 70 d
Percentage dissipation: 64 % (DT50: 40 d)
Method: Other
Remarks: By analogy with a product of similar composition

|| Biphenyl-2-ol:

Distribution among environmental compartments : Koc: 346,7, log Koc: 2,54

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:

|| Cetyltrimethyl ammonium chloride:

Assessment : Remarks: The substance does not meet the criteria for PBT or vPvB substance.

|| Biphenyl-2-ol:

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.

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12.7 Other adverse effects

Product:

Environmental fate and pathways : no data available

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

Components:

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

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

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

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

15.2 Chemical safety assessment

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

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.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H335	:	May cause respiratory irritation.

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

heubach

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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
Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure

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

Classification of the mixture:

Classification procedure:

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Eye Irrit. 2	H319	Calculation method
Aquatic Chronic 3	H412	Calculation method

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