according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Farbrezepte METALL-EFFEKT Gold

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

1.1 Product identifier

Trade name : Farbrezepte METALL-EFFEKT Gold

Unique Formula Identifier

(UFI)

: 330C-4QGC-901C-9V0X

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

Use of the Sub- : Water-borne coatings

stance/Mixture

Recommended restrictions

on use

: within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Alpina Farben GmbH

Roßdörfer Straße 50

64372 OBER RAMSTADT

Telephone : +498001238887 Telefax : +4961547170632

Website : w E-mail address Responsi- : n

ble/issuing person

: www.alpina-farben.de: msds@dr-rmi.com

1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : P101 If medical advice is needed, have product con-

tainer or label at hand.

P102 Keep out of reach of children.

Prevention:

P261 Avoid breathing mist or vapors.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

Disposal:

P501 Dispose of contents/ container to an approved

waste disposal plant.

Hazardous ingredients which must be listed on the label:

1,2-benzisothiazol-3(2H)-one

2-methylisothiazol-3(2H)-one

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

2.3 Other hazards

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

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, aqueous

Components

| Chemical name | CAS-No. EC-No. Index-No. | Classification | Concentration (% w/w) |
|----------------|--------------------------------|---------------------|--------------------------|
| | Registration number | | |
| bronopol (INN) | 52-51-7 | Acute Tox. 4; H302 | >= 0,0025 - < |
| | 200-143-0 | Acute Tox. 4; H312 | 0,025 |
| | 603-085-00-8 | Skin Irrit. 2; H315 | |

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| | 01-2119980938-15 | Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ———————————————————————————————————— | |
|------------------------------|--|---|------------------------|
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 01-2120761540-60 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Acute Tox. 2; H330 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0,05 % | >= 0,0025 - < 0,025 |
| 2-methylisothiazol-3(2H)-one | 2682-20-4 220-239-6 613-326-00-9 01-2120764690-50 | Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 | >= 0,0025 - < 0,025 |

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| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 613-167-00-5 01-2120764691-48 | specific concentration limit Skin Sens. 1A; H317 >= 0,0015 % Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0.6 % | >= 0,0002 - < 0,0015 |
|---|--|---|----------------------|
| Substances with a week place area | ouro limit : | >= 0,6 % | |
| Substances with a workplace expo | | Flom Col 4: 11000 | . 1 :10 |
| aluminium powder (stabilised) | 7429-90-5 231-072-3 013-002-00-1 01-2119529243-45 | Flam. Sol. 1; H228 | >= 1 - < 10 |
| Poly(oxy-1,2-ethanediyl), .alpha hydroomegahydroxy- | 25322-68-3 500-038-2 01-2119958801-32 | | >= 1 - < 10 |

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where

possible).

Move out of dangerous area. First aider needs to protect himself.

If inhaled : Move to fresh air.

In case of skin contact : Do NOT use solvents or thinners.

In case of contact, immediately flush skin with soap and plenty

of water.

In case of eye contact : If eye irritation persists: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If swallowed : Seek medical advice.

Clean mouth with water and drink afterwards plenty of water.

If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Do not use a solid water stream as it may scatter and spread

fire.

Unsuitable extinguishing

media

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: In case of fire hazardous decomposition products may be

produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocar-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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bons (smoke).

5.3 Advice for firefighters

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Standard procedure for chemical fires.

The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use protective shoes or boots with rough rubber sole.

Material can create slippery conditions. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

, For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

No special technical protective measures required.

Hygiene measures : Wash hands before eating, drinking, or smoking. Do not eat,

drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating

areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature in the original container. Containers which are opened must be care-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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fully resealed and kept upright to prevent leakage.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline

materials.

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

Specific use(s) : This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| CAS-No. | Value type (Form | Control parameters | Basis |
|---|--|--|-------------------------|
| | | | DE TD00 |
| 7429-90-5 | | 10 mg/m3 | DE TRGS |
| | , | | 900 |
| | | | |
| | | | nd biological |
| tolerance valu | | | |
| | | 1,25 mg/m3 | DE TRGS |
| | fraction) | | 900 |
| Peak-limit cate | egory: 2;(II) | | |
| Further inform | nation: When there is | compliance with the OEL ar | nd biological |
| | | | - |
| | BM (Alveolar | 0,5 mg/m3 | DE TRGS |
| | dust fraction) | | 527 |
| 25322-68-3 | AGW (Inhalable | 200 mg/m3 | DE TRGS |
| | fraction) | | 900 |
| | , | | |
| | | | |
| Peak-limit category: 2;(II) | | | |
| | | s compliance with the OEL ar | nd biological |
| tolerance valu | ies, there is no risk c | of harming the unborn child | · · |
| | AGW (Inhalable | 1.000 mg/m3 | DE TRGS |
| | fraction) | | 900 |
| | | | |
| Further information: When there is compliance with the OEL and biological | | | |
| | | | |
| | AGW (Inhalable | | DE TRGS |
| | fraction) | | 900 |
| | | | |
| Further information: When there is compliance with the OEL and biological | | | |
| tolerance values, there is no risk of harming the unborn child | | | |
| | MAK (inhalable | 250 mg/m3 | DE DFG MAK |
| | fraction) | | |
| Further information: Damage to the embryo or foetus is unlikely when the | | | |
| | Peak-limit cat Further inform tolerance valu Peak-limit cat Further inform tolerance valu 25322-68-3 Peak-limit cat Further inform tolerance valu Peak-limit cat Further inform tolerance valu Peak-limit cat Further inform tolerance valu Peak-limit cat Further inform tolerance valu | of exposure) 7429-90-5 AGW (Inhalable fraction) Peak-limit category: 2;(II) Further information: When there is tolerance values, there is no risk of the fraction and the fraction are tolerance values, there is no risk of the fraction are tolerance values. | of exposure) 7429-90-5 |

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MAK value or the BAT value is observed

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|-------------------------------|-----------|--------------------------------------|--|---------------|
| aluminium powder (stabilised) | 7429-90-5 | Aluminum: 50 μg/g creatinine (Urine) | In case of long- term exposure: after more than one shift | TRGS 903 |
| | | Aluminum: 50 μg/g creatinine (Urine) | end of shift, for long-term expo- sures after several previous shifts | DE DFG BAT |

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

| Substance name | End Use | Routes of expo- sure | Potential health effects | Value |
|--|-----------|-------------------------|------------------------------|----------------------|
| aluminium powder (stabilised) | Consumers | Ingestion | Long-term systemic effects | 7,90 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 3,95 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 3,72 mg/m3 |
| | Workers | Inhalation | Long-term local ef- fects | 3,72 mg/m3 |
| | Workers | Inhalation | Long-term local ef- fects | 3,72 mg/m3 |
| Poly(oxy-1,2- ethanediyl), .alpha hydroomega hydroxy- | Consumers | Inhalation | Long-term systemic effects | 0,10 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 0,06 mg/kg bw/day |
| | Consumers | Skin contact | Long-term systemic effects | 0,12 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 0,42 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0,24 mg/kg bw/day |
| bronopol (INN) | Consumers | Skin contact | Acute systemic effects | 4,20 mg/kg bw/day |
| | Consumers | Skin contact | Long-term systemic effects | 1,40 mg/kg bw/day |
| | Consumers | Inhalation | Acute systemic effects | 3,70 mg/m3 |
| | Consumers | Skin contact | Long-term local ef- fects | 8,00 μg/cm2 |
| | Consumers | Ingestion | Acute systemic effects | 1,10 mg/kg bw/day |
| | Consumers | Skin contact | Acute local effects | 8,00 µg/cm2 |
| | Consumers | Inhalation | Long-term systemic effects | 1,20 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 1,30 mg/m3 |

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| Consumers | Inhalation | Long-term local effects | 1,30 mg/m3 |
|-----------|--------------|------------------------------|----------------------|
| Consumers | Ingestion | Long-term systemic effects | 0,35 mg/kg bw/day |
| Workers | Inhalation | Acute systemic effects | 12,30 mg/m3 |
| Workers | Inhalation | Acute local effects | 4,20 mg/m3 |
| Workers | Inhalation | Long-term systemic effects | 4,10 mg/m3 |
| Workers | Inhalation | Long-term local ef- fects | 4,20 mg/m3 |
| Workers | Skin contact | Acute systemic effects | 7,00 mg/kg bw/day |
| Workers | Skin contact | Acute local effects | 13,00 µg/cm2 |
| Workers | Skin contact | Long-term systemic effects | 2,30 mg/kg bw/day |
| Workers | Skin contact | Long-term local ef- fects | 13,00 µg/cm2 |

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

| Substance name | Environmental Compartment | Value |
|----------------------------------|---------------------------|-------------------|
| aluminium powder (stabilised) | Sewage treatment plant | 20 mg/l |
| | Fresh water | 74,9 µg/l |
| Poly(oxy-1,2-ethanediyl), .alpha | Fresh water sediment | 188 mg/kg dry |
| hydroomegahydroxy- | | weight (d.w.) |
| | Sea water | 0,0188 mg/l |
| | Sea sediment | 188 mg/kg dry |
| | | weight (d.w.) |
| | Fresh water | 0,188 mg/l |
| | Soil | 52,264 mg/kg dry |
| | | weight (d.w.) |
| | Intermittent use/release | 1,88 mg/l |
| | Sewage treatment plant | 72,92 mg/l |
| bronopol (INN) | Sea sediment | 0,00328 mg/kg |
| | | dry weight (d.w.) |
| | Fresh water sediment | 0,041 mg/kg dry |
| | | weight (d.w.) |
| | Sewage treatment plant | 0,43 mg/l |
| | Soil | 0,5 mg/kg dry |
| | | weight (d.w.) |
| | Intermittent use/release | 0,0025 mg/l |
| | Sea water | 0,0008 mg/l |
| | Fresh water | 0,01 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : DGUV Regulation 112-192 - Use of eye and face protection

Goggles

Hand protection

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Material : Nitrile rubber Glove thickness : 0,2 mm Protective index : Class 3

Remarks : Before removing gloves clean them with soap and water.

Wear suitable gloves tested to EN374.

DGUV Regulation 112-195 - Use of protective gloves

Skin and body protection : Safety shoes

Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Remove and wash contaminated clothing before re-use.

During spray application: impervious clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

DGUV Regulation 112-190 - Use of breathing equipment

During spray application: Do not breathe spray dust. Use

A2/P2 combination filter for paint spraying.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : gold

Odor : No data available

Melting point/freezing point : ca. 0 °C

Boiling point/boiling range : ca. 100 °C

Upper explosion limit / Upper :

flammability limit

not determined

Lower explosion limit / Lower : not determined

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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flammability limit

Flash point : Not applicable

Autoignition temperature : not determined

Decomposition temperature : Not applicable

pH : 6,9

Concentration: 100 %

Viscosity

Viscosity, dynamic : No data available

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

Not applicable

Vapor pressure : ca. 23,4 hPa (20 °C)

Relative density : not determined

Density : 1,0580 g/cm3

Relative vapor density : Not applicable

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Flammability (liquids) : The product is not flammable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.

Incompatible with oxidizing agents.

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

Not classified based on available information.

Components:

bronopol (INN):

Acute oral toxicity : LD50 (Rat, female): 324 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male): 1.600 mg/kg

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

Acute oral toxicity : LD50 (Rat): 532 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

2-methylisothiazol-3(2H)-one:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Acute oral toxicity : LD50 (Rat): 120 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,145 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

Acute oral toxicity : LD50 (Rat): 66 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 0,17 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 141 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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11.2 Information on other hazards

Endocrine disrupting properties

Not classified based on available information.

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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

Components:

bronopol (INN):

M-Factor (Acute aquatic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

: 1

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): 3,27 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 0,11 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

: 1

M-Factor (Chronic aquatic

toxicity)

: 1

2-methylisothiazol-3(2H)-one:

M-Factor (Acute aquatic tox- :

icity)

10

M-Factor (Chronic aquatic

toxicity)

1

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

M-Factor (Acute aquatic tox- :

100

icity)

M-Factor (Chronic aquatic

100

toxicity)

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 100 mg/l

Exposure time: 96 h

Remarks: Information taken from reference works and the

literature.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

bronopol (INN):

Partition coefficient: n- : log Pow: 0,15 (23 °C)

octanol/water pH: 4,9

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

Partition coefficient: n- : log Pow: 0,63 - 0,76

octanol/water pH: 7

2-methylisothiazol-3(2H)-one:

Partition coefficient: n- : log Pow: -0,486 (25 °C)

octanol/water pH: 7

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

Partition coefficient: n- : log Pow: <= 0,75

octanol/water Method: OECD Test Guideline 117

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Partition coefficient: n-

octanol/water

: log Pow: -0,698

12.4 Mobility in soil

No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a

safe way in accordance with the full requirements of the local,

regional, national and international authorities.

Washing water must not be discharged into the sewage sys-

tem or the environment.

Contaminated packaging : Only completely emptied containers should be given for recy-

cling.

Waste Code : used product

080112, waste paint and varnish other than those mentioned

in 08 01 11*

SECTION 14: Transport information

14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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IMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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, Conditions of restriction for the following entries should be considered:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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mixtures and articles (Annex XVII) Number on list 75, 3

N-(4-chloro-2,5-dimethoxyphenyl)-2-

[[2,5-dimethoxy-4-

[(phenyla-

mino)sulphonyl]phenyl]azo]-3oxobutyramide (Number on list 75)

If you intend to use this product as tattoo ink, please contact your ven-

dor.

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

None

Regulation (EC) on substances that deplete the ozone

layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

None

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

Not applicable

Water hazard class (Germa-

ny)

: WGK 1 slightly water endangering

Classification according to AwSV, Annex 1 (5.2)

: BSW20 Coating materials, water-based

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,06 %

Volatile organic compounds Directive 2004/42/EC

> < 0.1 % < 1 g/l

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H228 : Flammable solid.
H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H310 : Fatal in contact with skin.
H311 : Toxic in contact with skin.
H312 : Harmful 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.

H335 : May cause respiratory irritation.

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 Flam. Sol. : Flammable solids Skin Corr. : Skin corrosion Skin Irrit. : Skin sensitization : Skin sensitization

STOT SE : Specific target organ toxicity - single exposure

DE DFG BAT : Germany. MAK BAT Annex XIII
DE DFG MAK : Germany. MAK BAT Annex IIa

DE TRGS 527 : Germany. TRGS 527 - Activities with nanomaterials

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

TRGS 903 : TRGS 903 - Biological limit values

DE DFG MAK / MAK : MAK value

DE TRGS 527 / BM : Assessment scale
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AlIC - 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; ICSO - 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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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 Chemicals 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

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC. Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation.

2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European

Communities

SAX'S - Dangerous properties of industrial materials GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the Ger-

man Social Accident Insurance)
Toxnet - Toxicology Data Network

Classification of the mixture:

Classification procedure:

Skin Sens. 1 H317 Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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