

Safety Data Sheet

according to Regulation (EC) No 1907/2006

düfa Classic (Blech)

Revision date: 02.01.2024

Product code: 10071013100000

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

düfa Classic (Blech)

UFI: TFR3-VMNV-XRF1-UEQ3

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

dispersion paint

Relevant identified uses see section 16.

Uses advised against

None, use in accordance with instructions.

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|-------------------------------|----------------------------|
| Company name: | Meffert AG Farbwerke | |
| Street: | Sandweg 15 | |
| Place: | D-55543 Bad Kreuznach | |
| Telephone: | +49 671 870-0 | Telefax: +49 671 870-397 |
| E-mail: | info@meffert.com | |
| Contact person: | Regulatory Affairs Department | Telephone: +49 671 870-303 |
| E-mail: | SDB@meffert.com | |
| Internet: | www.meffert.com | |

1.4. Emergency telephone number: 00 800 63333782 Mon.–Fri. 7.30 a.m. – 8.00 p.m., Sat. 9.00 a.m. – 8.00 p.m.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

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

2-methyl-2H-isothiazol-3-one

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

Signal word: Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.

Precautionary statements

| | |
|-----------|--|
| P102 | Keep out of reach of children. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |

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Special labelling of certain mixtures

EUH211:Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Toxicological information: The substance/mixture does not contain any components that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.
Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

Environmental information: The substance/mixture does not contain any components that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.
Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] | | | 5 - < 10 % |
| | 236-675-5 | | 01-2119489379-17 | |
| | Carc. 2; H351 | | | |
| 14808-60-7 | quartz (SiO ₂) | | | < 0.1 % |
| | 238-878-4 | | 01-2120770509-45 | |
| | STOT RE 1; H372 | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | < 0.05 % |
| | 220-120-9 | 613-088-00-6 | 01-2120761540-60 | |
| | Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H330 H302 H315 H318 H317 H400 H411 | | | |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one | | | < 0.1 % |
| | 220-239-6 | | 01-2120764690-50 | |
| | Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 | | | |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | < 0.0015 % |
| | | 613-167-00-5 | 01-2120764691-48 | |
| | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 | | | |

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 13463-67-7 | 236-675-5 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | 5 - < 10 % |
| | | inhalation: LC50 = $>6,82 \text{ mg/l}$ (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = $>5000 \text{ mg/kg}$ Carc. 2; H351: $\geq 100 - 100$ | |
| 14808-60-7 | 238-878-4 | quartz (SiO ₂) | < 0.1 % |
| | | STOT RE 1; H372: $\geq 100 - 100$ STOT RE 2; H373: $\geq 90 - 100$ | |
| 2634-33-5 | 220-120-9 | 1,2-benzisothiazol-3(2H)-one | < 0.05 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = 530 mg/kg Skin Sens. 1; H317: $\geq 0,05 - 100$ Aquatic Acute 1; H400: M=1 | |
| 2682-20-4 | 220-239-6 | 2-methyl-2H-isothiazol-3-one | < 0.1 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = 285 mg/kg Skin Sens. 1A; H317: $\geq 0,0015 - 100$ Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1 | |
| 55965-84-9 | | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | < 0.0015 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,33 mg/l (dusts or mists); dermal: LD50 = $>75 \text{ mg/kg}$; oral: LD50 = 49,6-75 mg/kg Skin Corr. 1C; H314: $\geq 0,6 - 100$ Skin Irrit. 2; H315: $\geq 0,06 - < 0,6$ Eye Dam. 1; H318: $\geq 0,6 - 100$ Eye Irrit. 2; H319: $\geq 0,06 - < 0,6$ Skin Sens. 1A; H317: $\geq 0,0015 - 100$ Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. When in doubt or if symptoms are observed, get medical advice.

After inhalation

If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

With water, a slippery film is created. Provide adequate ventilation.

For non-emergency personnel

Use personal protection equipment. Personal protection equipment: see section 8

First aider: Pay attention to self-protection!

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Take up mechanically, placing in appropriate containers for disposal.

Methods and material for containment and cleaning up: Sand Sawdust Universal binder

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Personal protection equipment: see section 8

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

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Provide fresh air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Always close containers tightly after the removal of product.

Hints on joint storage

Do not store together with: Acid alkali

Further information on storage conditions

Keep/Store only in original container. Protect from direct sunlight. Avoid cooling down below 10°C.

7.3. Specific end use(s)

Water-based paints, solvent-free

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Name of agent | | | |
|--------------------------|---|----------------|----------|--------------------|
| DNEL type | | Exposure route | Effect | Value |
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] | | | |
| Worker DNEL, long-term | | inhalation | local | 10 mg/m³ |
| Consumer DNEL, long-term | | oral | systemic | 700 mg/kg bw/day |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | |
| Worker DNEL, long-term | | inhalation | systemic | 6,8 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,966 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,2 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,345 mg/kg bw/day |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | |
| Worker DNEL, long-term | | inhalation | local | 0,02 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 0,04 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 0,02 mg/m³ |
| Consumer DNEL, acute | | inhalation | local | 0,04 mg/m³ |
| Consumer DNEL, long-term | | oral | systemic | 0,11 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 0,09 mg/kg bw/day |

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PNEC values

| CAS No | Name of agent | |
|--|---|---------------|
| Environmental compartment | | Value |
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] | |
| Freshwater | | 0,127 mg/l |
| Freshwater (intermittent releases) | | 0,61 mg/l |
| Marine water | | 1 mg/l |
| Freshwater sediment | | 1000 mg/kg |
| Marine sediment | | 100 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 100 mg/kg |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | |
| Freshwater | | 0,00403 mg/l |
| Freshwater (intermittent releases) | | 0,0011 mg/l |
| Marine water | | 0,000403 mg/l |
| Marine water (intermittent releases) | | 0,0011 mg/l |
| Freshwater sediment | | 0,049 mg/l |
| Marine sediment | | 0,00499 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1,03 mg/l |
| Soil | | 3 mg/kg |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | |
| Freshwater | | 0,0039 mg/l |
| Freshwater (intermittent releases) | | 0,0039 mg/l |
| Marine water | | 0,0039 mg/l |
| Marine water (intermittent releases) | | 0,0039 mg/l |
| Freshwater sediment | | 0,027 mg/kg |
| Marine sediment | | 0,027 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,23 mg/l |
| Soil | | 0,01 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear eye/face protection.

Wear protective glasses during application with a spray gun.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Replace when worn.

See information supplied by the manufacturer.

Suitable material: NBR (Nitrile rubber). Wear cotton undermitten if possible.

Breakthrough time: >480 min.

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Thickness of the glove material: >0,5 mm

Skin protection

Wear suitable protective clothing. Light protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. In case of spray processing: Filtering device (full mask or mouthpiece) with filter: A2/P2

Environmental exposure controls

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|---|----------------------------------|
| Physical state: | Liquid |
| Colour: | see color on the packaging label |
| Odour: | sweetish |
| Odour threshold: | not determined |
| Melting point/freezing point: | ca. 0 °C °C |
| Boiling point or initial boiling point and boiling range: | ca. 100 °C |
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Flash point: | na |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | not applicable |
| pH-Value (at 20 °C): | 8,5 - 9,2 |
| Viscosity / kinematic: | na |
| Water solubility: | completely miscible |
| Solubility in other solvents | |
| not determined | |
| Dissolution rate: | not applicable |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 1,56 g/cm ³ |
| Relative vapour density: | not determined |
| Particle characteristics: | Liquid, not applicable |

9.2. Other information**Information with regard to physical hazard classes**

| | |
|---------------------------|---------------------------|
| Sustaining combustion: | Not sustaining combustion |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Oxidizing properties | |
| Not oxidising. | |

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not applicable |
| Solid content: | not determined |
| Sublimation point: | not applicable |
| Softening point: | not applicable |
| Pour point: | not applicable |
| Flow time: | na |

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Further Information

none

SECTION 10: Stability and reactivity**10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

10.4. Conditions to avoid

Avoid heat and frost.

10.5. Incompatible materials

Materials that react with water. Alkali (lye) Acid, Oxidising agent..

10.6. Hazardous decomposition productsIn case of fire may be liberated: Carbon monoxide, Nitrogen oxides (NO_x), Carbon dioxide (CO₂). Under certain fire conditions, traces of other toxic products can not be excluded.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No | Chemical name | | | | |
|------------|---|-----------------------|---------|--------|----------|
| | Exposure route | Dose | Species | Source | Method |
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | | | | |
| | oral | LD50 mg/kg >5000 | Rat | | OECD 425 |
| | dermal | LD50 mg/kg >2000 | Rat | | |
| | inhalation (4 h) dust/mist | LC50 mg/l >6,82 | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | | |
| | oral | LD50 mg/kg 530 | Rat | | OECD 423 |
| | dermal | LD50 mg/kg >2000 | Rat | | OECD 402 |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation dust/mist | ATE 0,05 mg/l | | | |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one | | | | |
| | oral | LD50 mg/kg 285 | Rat | | |
| | dermal | LD50 mg/kg >2000 | Rat | | |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation dust/mist | ATE 0,05 mg/l | | | |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | | |
| | oral | LD50 mg/kg 49,6-75 | Rat | | |
| | dermal | LD50 mg/kg >75 | Rabbit | | |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 0,33 mg/l | Rat | | |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]:

Test data from the manufacturer of the raw materials containing TiO₂ according to EN 15051-2 show that the raw materials contain < 1% particles with an aerodynamic diameter of $\leq 10 \mu\text{m}$ and therefore do not meet the classification criteria. The respirable and thoracic dust content of raw materials containing TiO₂ falls into the very low or low dust category according to the EN 15051-2 method.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

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| CAS No | Chemical name | | | | | |
|------------|---|--------------------|-----------|-------------------------------------|--------|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] | | | | | |
| | Acute fish toxicity | LC50 >10000 mg/l | 96 h | Cyprinus carpio (Common Carp) | | OECD 203 |
| | Acute algae toxicity | ErC50 >100 mg/l | 72 h | Pseudokirchneriella subcapitata | | |
| | Acute crustacea toxicity | EC50 >100 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | | | |
| | Acute fish toxicity | LC50 2,15 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | OECD 203 |
| | Acute algae toxicity | ErC50 0,11 mg/l | 72 h | Pseudokirchneriella subcapitata | | OECD 201 |
| | Acute crustacea toxicity | EC50 3,27 mg/l | 48 h | Daphnia magna (Big water flea) | | OECD 202 |
| | Fish toxicity | NOEC 0,21 mg/l | 28 d | Oncorhynchus mykiss (Rainbow trout) | | OECD 215 |
| | Algae toxicity | NOEC 0,0403 mg/l | 3 d | Pseudokirchneriella subcapitata | | OECD 201 |
| | Acute bacteria toxicity | EC50 12,8 mg/l () | 3 h | Activated sludge | | OECD 209 |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one | | | | | |
| | Acute fish toxicity | LC50 >0,15 mg/l | 96 h | Danio rerio (zebrafish) | | |
| | Acute algae toxicity | ErC50 0,157 mg/l | 72 h | Pseudokirchneriella subcapitata | | |
| | Acute crustacea toxicity | EC50 0,87 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Acute bacteria toxicity | EC50 34,6 mg/l () | 3 h | Activated sludge | | |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | | | |
| | Acute fish toxicity | LC50 0,19 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | OECD 202 |
| | Acute algae toxicity | ErC50 0,027 mg/l | 72 h | Pseudokirchneriella subcapitata | | OECD 201 |
| | Acute crustacea toxicity | EC50 0,16 mg/l | 48 h | Daphnia magna (Big water flea) | | OECD 203 |
| | Fish toxicity | NOEC 0,05 mg/l | 14 d | Oncorhynchus mykiss (Rainbow trout) | | |
| | Algae toxicity | NOEC 0,0012 mg/l | 3 d | Pseudokirchneriella subcapitata | | OECD 201 |
| | Crustacea toxicity | NOEC 0,1 mg/l | 21 d | Daphnia magna (Big water flea) | | |
| | Acute bacteria toxicity | EC50 7,92 mg/l () | 3 h | Activated sludge | | OECD 209 |

12.2. Persistence and degradability

The product has not been tested.

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| CAS No | Chemical name | | | |
|------------|---|--------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | |
| | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C | 70-80% | 28 | |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | |
| | OECD 301D/ EEC 92/69/V, C.4-E | >60% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| | OECD 302B/ ISO 9888/ EEC 92/69/V, C.9 | 100% | 28 | |
| | OECD 303/ EEC 92/69/V, C10 | >80% | 28 | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | 0,7 |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one | -0,32 |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | <3 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|------|-------------------------------------|----------|
| 13463-67-7 | Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] | 352 | Oncorhynchus mykiss (Rainbow trout) | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | 189 | Danio rerio (zebrafish) | OECD 305 |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one | 3,16 | No data available | |
| 55965-84-9 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | <100 | | |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment. There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

Dispose according to legislation.

Dried out material residue can be disposed of with household waste. For liquid material residue, contact your local waste collection provider.

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List of Wastes Code - residues/unused products

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

| | |
|---|---------------------|
| Directive 2010/75/EU on industrial emissions: | 0,028 % (0,439 g/l) |
|---|---------------------|

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Directive 2004/42/EC on VOC in
paints and varnishes:
Information according to Directive
2012/18/EU (SEVESO III):

0,017 % (0,263 g/l)

Not subject to 2012/18/EU (SEVESO III)

Additional information

This product is a "treated article without a primary
biocidal function" (Article 58 in conjunction with Article 3(1)(a)). The product contains biocides with
preservative action to combat microbial decay (PT6).

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
Carc: Carcinogenicity
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Key literature references and sources for data

Sources: <http://www.gisbau.de> <http://www.baua.de>

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| | |
|--------------------|--------------------------|
| Classification | Classification procedure |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic 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.
H351 Suspected of causing cancer.

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| | |
|--------|---|
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|---|-------|----|----|--------|----------|----|----|---------------|
| 1 | Coatings and paints, thinners, paint removers | PW, C | 19 | 9a | 10, 11 | 10a, 11a | - | - | Sprüh/Rol/St |

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)