

SAFETY DATA SHEET

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



DE / EN

Universal Haftgrund

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04.04.2023 |
| 6.0 | 22.07.2024 | 6003617 | Date of first issue: 29.10.2019 |

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

1.1 Product identifier

Trade name : Universal Haftgrund

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

Use of the Sub-
stance/Mixture : Water-borne coatings

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 : www.alpina-farben.de
E-mail address Responsible/issuing person : 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)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Additional Labeling

EUH208 Contains dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-), stereoisomer, 2,4,7,9-tetramethyldec-5-yne-4,7-diol, 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). **May produce an allergic reaction.**

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

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

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|---|--|--------------------------|
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | 13463-67-7 236-675-5 022-006-00-2 01-2119489379-17 | Carc. 2; H351 | $\geq 10 - < 20$ |
| sodium benzoate | 532-32-1 208-534-8 01-2119460683-35 | Eye Irrit. 2; H319 | $\geq 1 - < 10$ |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 203-961-6 603-096-00-8 01-2119475104-44 | Eye Irrit. 2; H319 | $\geq 1 - < 10$ |
| dipotassium bis[μ -[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-), stereoisomer | 11071-15-1 234-293-3 051-003-00-9 01-2120767962-40 | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | $\geq 0,25 - < 1$ |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | 126-86-3 204-809-1 01-2119954390-39 | Skin Sens. 1B; H317 Eye Dam. 1; H318 Aquatic Chronic 3; H412 | $\geq 0,1 - < 0,25$ |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 | $\geq 0,0025 - < 0,025$ |

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| | | | |
|---|--|---|-------------------------|
| | 01-2120761540-60 | 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 % | |
| 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 | 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 |

For explanation of abbreviations see section 16.

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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

None known.

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 carbon dioxide. Use extinguishing measures that are appropriate to local circumstances 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: |
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Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Use water spray to cool unopened containers.
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 : Use only with adequate ventilation.
For personal protection see section 8.
No special technical protective measures required.

Please follow the technical information.

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.

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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 carefully 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

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|--|---|-------------|
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | 13463-67-7 | MAK (measured as the alveolate fraction) | 0,3 mg/m ³ | DE DFG MAK |
| | Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed | | | |
| | | AGW (Inhalable fraction) | 10 mg/m ³ (Titanium dioxide) | DE TRGS 900 |
| | Peak-limit category: 2;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | AGW (Alveolate fraction) | 1,25 mg/m ³ (Titanium dioxide) | DE TRGS 900 |
| | Peak-limit category: 2;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | BM (Alveolar dust fraction) | 0,5 mg/m ³ | DE TRGS 527 |
| sodium benzoate | 532-32-1 | AGW (Inhalable fraction) | 10 mg/m ³ (benzoate) | DE TRGS 900 |
| | Peak-limit category: 2;(II) | | | |
| | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | MAK (inhalable) | 10 mg/m ³ | DE DFG MAK |

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| | | fraction) | (benzoate) | |
| | Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed | | | |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | TWA | 10 ppm 67,5 mg/m3 | 2006/15/EC |
| | Further information: Indicative | | | |
| | | STEL | 15 ppm 101,2 mg/m3 | 2006/15/EC |
| | Further information: Indicative | | | |
| | | AGW (Vapour and aerosols) | 10 ppm 67 mg/m3 | DE TRGS 900 |
| | Peak-limit category: 1.5;(I) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | MAK | 10 ppm 67 mg/m3 | DE DFG MAK |
| | Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed | | | |

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

| Substance name | End Use | Routes of exposure | Potential health effects | Value |
|---|-----------|--------------------|----------------------------|---------------------|
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | Consumers | Ingestion | Long-term systemic effects | 700,00 mg/kg bw/day |
| | Workers | Inhalation | Long-term local effects | 10,00 mg/m3 |
| Silicic acid, aluminum sodium salt | Workers | Inhalation | Long-term local effects | 4,00 mg/m3 |
| 1-(2-butoxy-1-methylethoxy)propan-2-ol | Consumers | Inhalation | Long-term systemic effects | 1,20 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 7,50 mg/kg bw/day |
| | Consumers | Skin contact | Long-term systemic effects | 1,10 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 10,00 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 3,00 mg/kg bw/day |
| sodium benzoate | Consumers | Skin contact | Long-term systemic effects | 31,25 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 1,50 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 16,60 mg/kg bw/day |

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| | Consumers | Inhalation | Long-term local effects | 0,06 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 3,00 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 0,10 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 62,50 mg/kg bw/day |
| 2-(2-butoxyethoxy)ethanol | Consumers | Inhalation | Acute local effects | 60,70 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 5,00 mg/kg bw/day |
| | Consumers | Inhalation | Long-term local effects | 40,50 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 50,00 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 40,50 mg/m3 |
| | Workers | Inhalation | Acute local effects | 101,20 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 67,50 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 67,50 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 83,00 mg/kg bw/day |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | Consumers | Skin contact | Acute systemic effects | 0,75 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0,25 mg/kg bw/day |
| | Consumers | Ingestion | Acute systemic effects | 0,75 mg/kg bw/day |
| | Consumers | Inhalation | Acute systemic effects | 1,29 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 0,43 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0,25 mg/kg bw/day |
| | Workers | Inhalation | Acute systemic effects | 5,28 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 1,76 mg/m3 |
| | Workers | Skin contact | Acute systemic effects | 1,50 mg/kg bw/day |
| | Workers | Skin contact | Long-term systemic effects | 0,50 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|--|---------------------------|----------|
| titanium dioxide; [in powder form containing 1 % or more of parti- | Sewage treatment plant | 100 mg/l |

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| cles with aerodynamic diameter \leq 10 μm] | | |
| | Fresh water | 0,184 mg/l |
| | Soil | 100 mg/kg dry weight (d.w.) |
| | Sea water | 0,0184 mg/l |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| | Sea sediment | 100 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 0,193 mg/l |
| 3-methoxybutan-1-ol | Soil | 0,018 mg/kg dry weight (d.w.) |
| | Fresh water | 0,1 mg/l |
| | Sewage treatment plant | 15,5 mg/l |
| | Sea sediment | 0,039 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 1 mg/l |
| | Sea water | 0,01 mg/l |
| | Fresh water sediment | 0,386 mg/kg dry weight (d.w.) |
| 1-(2-butoxy-1-methylethoxy)propan-2-ol | Sewage treatment plant | 100 mg/l |
| | Fresh water | 0,519 mg/l |
| | Soil | 0,287 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 5,19 mg/l |
| | Fresh water sediment | 2,96 mg/kg dry weight (d.w.) |
| | Sea water | 0,0519 mg/l |
| | Sea sediment | 0,296 mg/kg dry weight (d.w.) |
| sodium benzoate | Intermittent use/release | 305 $\mu\text{g/l}$ |
| | Fresh water sediment | 1,76 mg/kg dry weight (d.w.) |
| | Soil | 0,276 mg/kg dry weight (d.w.) |
| | Sea water | 0,013 mg/l |
| | Sea sediment | 0,176 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water | 0,13 mg/l |
| | Secondary Poisoning | 300 mg/kg food |
| 2-(2-butoxyethoxy)ethanol | Fresh water | 1,1 mg/l |
| | Fresh water sediment | 4,4 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 11 mg/l |
| | Sea water | 0,11 mg/l |
| | Sea sediment | 0,44 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 200 mg/l |

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| | Soil | 0,32 mg/kg dry weight (d.w.) |
| | Secondary Poisoning | 56 mg/kg food |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | Sea water | 0,004 mg/l |
| | Sewage treatment plant | 7 mg/l |
| | Sea sediment | 0,032 mg/kg dry weight (d.w.) |
| | Fresh water | 0,04 mg/l |
| | Fresh water sediment | 0,32 mg/kg dry weight (d.w.) |
| | Soil | 0,028 mg/kg dry weight (d.w.) |
| | Intermittent use/release | 0,4 mg/l |

8.2 Exposure controls

Personal protective equipment

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

Hand protection

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.
DGVU Regulation 112-195 - Use of protective gloves

Skin and body protection : 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.

Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

DGVU Regulation 112-190 - Use of breathing equipment

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|---|
| Physical state | : | liquid |
| Color | : | white |
| Odor | : | characteristic |
| 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 flammability limit | : | not determined |
| Flash point | : | Not applicable |
| Autoignition temperature | : | not determined |
| Decomposition temperature | : | Not applicable |
| pH | : | 8,9 (20 °C) Concentration: 100 % Method: DIN EN ISO 19396-1:2020-05 |
| Viscosity | | |
| Viscosity, dynamic | : | > 200 mPa.s (20 °C) Method: ISO 3219 |
| Viscosity, kinematic | : | not determined |
| Flow time | : | not determined |
| Solubility(ies) | | |
| Water solubility | : | completely miscible |

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Partition coefficient: n-octanol/water : not determined

Vapor pressure : ca. 23,4 hPa (20 °C)

Relative density : not determined

Density : 1,25 g/cm³ (20 °C)
Method: DIN EN ISO 2811-1

Bulk density : Not applicable

Relative vapor density : not determined

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Flammability (liquids) : The product is not flammable.

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.

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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:

2-(2-butoxyethoxy)ethanol:

Acute oral toxicity : LD50 (Mouse): 2.410 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2.764 mg/kg

dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-) , stereoisomer:

Acute oral toxicity : LD50 (Mouse): 600 mg/kg

2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Acute oral toxicity : LD50 Oral (Rat): 4.600 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

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

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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

Not classified based on available information.

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.

11.2 Information on other hazards

Endocrine disrupting properties

Not classified based on available information.

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

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

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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 toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

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

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

sodium benzoate:

Partition coefficient: n-octanol/water : log Pow: -2,27

2-(2-butoxyethoxy)ethanol:

Partition coefficient: n-octanol/water : log Pow: 0,56

dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-) , stereoisomer:

Partition coefficient: n-octanol/water : log Pow: ca. -7,28

2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Partition coefficient: n-octanol/water : log Pow: 2,8 (22 °C)

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

Partition coefficient: n-octanol/water : log Pow: 0,63 - 0,76

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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-
octanol/water

: log Pow: <= 0,75
Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

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 considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of liquid material residues at the collection point for old paints/varnishes, dispose of dried material residues as construction and demolition waste or as municipal waste or household waste.

Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned

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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 |
| IMDG | : Not regulated as a dangerous good |
| IATA | : 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 regulations. |
|---------|--|

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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, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75
If you intend to use this product as tattoo ink, please contact your vendor.

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 pollutants (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 (Germany) : **WGK 1 slightly water endangering**
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-LW01 Water-based varnishes

. : BSW30 Coating materials, water-based, containing solvents

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 2,88 %

Volatile organic compounds : Directive 2004/42/EC
< 6 %
< 80 g/l

Other regulations:

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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

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. |
| H332 | : Harmful if inhaled. |
| H351 | : Suspected of causing cancer if inhaled. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| H412 | : Harmful to aquatic life with long lasting effects. |
| EUH071 | : Corrosive to the respiratory tract. |

Full text of other abbreviations

| | |
|-------------------|---|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Carc. | : Carcinogenicity |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitization |
| 2006/15/EC | : Europe. Indicative occupational exposure limit values |
| 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. |
| 2006/15/EC / TWA | : Limit Value - eight hours |
| 2006/15/EC / STEL | : Short term exposure limit |
| 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; AIC - 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 num-

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ber; 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 : 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 German Social Accident Insurance)
Toxnet - Toxicology Data Network

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.

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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 up-stream-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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