

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



|              |            |                           |             |
|--------------|------------|---------------------------|-------------|
| Article No.: | 28-850     | ISO-WSF Wetterschutzfarbe |             |
| Print date:  | 09.02.2026 | Revision date: 08.01.2026 | EN          |
| Version:     | 32.108     | Issue date: 08.01.2026    | Page 1 / 12 |

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

**1.1. Product identifier**

|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Article No. (manufacturer/supplier): | 28-850                                                                      |
| Trade name/designation               | ISO-WSF Wetterschutzfarbe<br>weiß<br>seidenmatt<br>UFI: X46P-PJ0S-VG02-CST9 |

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

**Relevant identified uses**

Varnish / paint

**Uses advised against**

Aware of any other information

**1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

|                                                                                      |                                                           |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------|
| P.A. Jansen GmbH u. Co., KG<br>Hochstadenstraße 22<br>D-53474 Bad Neuenahr-Ahrweiler | Telephone: +49 2641 3897-0<br><br>Homepage: www.jansen.de |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------|

**Department responsible for information:**

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| laboratory<br>E-mail (competent person) | sicherheitsdatenblatt@jansen.de |
|-----------------------------------------|---------------------------------|

**1.4. Emergency telephone number**

|                                                                   |                  |
|-------------------------------------------------------------------|------------------|
| Emergency telephone number<br>Only available during office hours. | +49 2641 3897-51 |
|-------------------------------------------------------------------|------------------|

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

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

**Additional information**

1 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**

**Hazard statements**

No data available

**Precautionary statements**

No data available

**Hazard components for labelling**

No data available

**Supplemental hazard information**

|        |                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUH208 | Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); Dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-), stereoisomer; 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.                                                                                                                                                                                                                                                      |

**Use restriction according to REACH annex XVII, no.: 78**

This product contains synthetic polymer microparticles.

**2.3. Other hazards**

No information available.

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**SECTION 3: Composition/information on ingredients**

3.2. **Mixtures**

\*

**Description** Mixture with the substances listed below with additions

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

| EC No.<br>CAS No.<br>Index No.         | REACH No.<br>Designation<br>classification: // Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | weight-%         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 234-293-3<br>11071-15-1                | 01-2120767962-40<br>Dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-), stereoisomer<br>Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411<br>Acute toxicity estimate (ATE): ATE (oral): 600 mg/kg bw                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,1 - 0,15       |
| 220-120-9<br>2634-33-5<br>613-088-00-6 | 01-2120761540-60<br>1,2-Benzisothiazol-3(2H)-one<br>Acute Tox. 2 H330 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1)<br>Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,036<br>Acute toxicity estimate (ATE): ATE (oral): 450 mg/kg bw / ATE (inhalation, dust/mist): 0,21 mg/L                                                                                                                                                                                                                                                                                                                              | 0,0036 - 0,036   |
| 55965-84-9<br>613-167-00-5             | 01-2120764691-48<br>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)<br>Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071<br>Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0,6 / Skin Irrit. 2 H315 >= 0,06 / Eye Dam. 1 H318 >= 0,6 / Eye Irrit. 2 H319 >= 0,06 / Skin Sens. 1A H317 >= 0,0015<br>Acute toxicity estimate (ATE): ATE (oral): 49 mg/kg bw / ATE (dermal): 92 mg/kg bw / ATE (inhalation, dust/mist): 0,33 mg/L / ATE (inhalation, dust/mist): 0,17 mg/L | 0,00015 - 0,0015 |

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

4.1. **Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Unsuitable extinguishing media

strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Further information

No special measures are required.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 8 °C and 30 °C. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

Barium sulfate

EC No. 231-784-4 / CAS No. 7727-43-7

WEL, TWA: 10 mg/m<sup>3</sup>

Remark: (inhalable fraction)

\*

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WEL, TWA: 4 mg/m<sup>3</sup>  
Remark: (respirable fraction)

**Additional information**

TWA : Long-term occupational exposure limit value  
STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

**DNEL:**

Propane-1,2-diol

EC No. 200-338-0 / CAS No. 57-55-6

DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 168 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 85 mg/kg  
DNEL long-term dermal (systemic), Consumer: 213 mg/kg  
DNEL long-term inhalative (local), Consumer: 10 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 50 mg/m<sup>3</sup>

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Index No. 613-167-00-5 / CAS No. 55965-84-9

DNEL long-term inhalative (local), Workers: 0,02 mg/m<sup>3</sup>  
DNEL acute inhalative (local), Workers: 0,04 mg/m<sup>3</sup>  
DNEL short-term oral (acute), Consumer: 0,11 mg/kg  
DNEL long-term oral (repeated), Consumer: 0,09 mg/kg  
DNEL acute inhalative (local), Consumer: 0,04 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 0,02 mg/m<sup>3</sup>

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

EC No. 234-293-3 / CAS No. 11071-15-1

DNEL acute inhalative (local), Workers: 0,5 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 0,12 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 0,5 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 0,12 mg/m<sup>3</sup>

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

Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5

DNEL long-term dermal (systemic), Workers: 0,966 mg/kg  
DNEL long-term inhalative (systemic), Workers: 6,81 mg/m<sup>3</sup>  
DNEL long-term dermal (systemic), Consumer: 0,345 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 1,2 mg/m<sup>3</sup>

Barium sulfate

EC No. 231-784-4 / CAS No. 7727-43-7

DNEL long-term oral (repeated), Workers: 10 mg/kg  
DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 13000 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 10 mg/m<sup>3</sup>

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 700 mg/kg

**PNEC:**

Propane-1,2-diol

EC No. 200-338-0 / CAS No. 57-55-6

PNEC aquatic, freshwater: 260 mg/L  
PNEC aquatic, marine water: 26 mg/L  
PNEC aquatic, intermittent release: 183 mg/L  
PNEC sediment, freshwater: 572 mg/kg  
PNEC sediment, marine water: 57,2 mg/kg  
PNEC, soil: 50 mg/kg  
PNEC sewage treatment plant (STP): 2000 mg/L  
PNEC Secondary Poisoning: 1133 mg/kg

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reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Index No. 613-167-00-5 / CAS No. 55965-84-9

PNEC aquatic, freshwater: 0,0033 mg/L

PNEC aquatic, marine water: 0,0033 mg/L

PNEC sediment, freshwater: 0,027 mg/kg

PNEC sediment, marine water: 0,027 mg/kg

PNEC, soil: 0,01 mg/kg

PNEC sewage treatment plant (STP): 0,23 mg/L

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

EC No. 234-293-3 / CAS No. 11071-15-1

PNEC aquatic, freshwater: 16 µg/L

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

Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5

PNEC aquatic, freshwater: 0,004 mg/L

PNEC aquatic, marine water: 0,0004 mg/L

PNEC aquatic, intermittent release: 0,0011 mg/L

PNEC sediment, freshwater: 0,0499 mg/kg

PNEC sediment, marine water: 0,0049 mg/kg

PNEC, soil: 3 mg/kg

PNEC sewage treatment plant (STP): 1,03 mg/L

Barium sulfate

EC No. 231-784-4 / CAS No. 7727-43-7

PNEC aquatic, freshwater: 0,115 mg/L

PNEC sediment, freshwater: 600,4 mg/kg

PNEC, soil: 207,7 mg/kg

PNEC sewage treatment plant (STP): 62,2 mg/L

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

PNEC aquatic, freshwater: 0,184 mg/L

PNEC aquatic, marine water: 0,0184 mg/L

PNEC aquatic, intermittent release: 0,193 mg/L

PNEC sediment, freshwater: 1000 mg/kg

PNEC sediment, marine water: 100 mg/kg

PNEC, soil: 100 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Personal protection equipment

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits as specified by the manufacturer. Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

#### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

No special measures are necessary.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

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Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                          |                                             |
|------------------------------------------|---------------------------------------------|
| Physical state:                          | Liquid                                      |
| Colour:                                  | white                                       |
| Odour:                                   | mild                                        |
| Odour threshold:                         | No data available                           |
| Melting point/freezing point:            | No data available                           |
| Initial boiling point and boiling range: | 100 °C<br>Source: Water                     |
| Flammability:                            | No data available                           |
| Lower and upper explosion limit:         |                                             |
| Lower explosion limit:                   | 0,8 Vol-%<br>Method: literature value       |
| Upper explosion limit:                   | No data available                           |
| Flash point:                             | No data available                           |
| Auto-ignition temperature:               | No data available                           |
| Decomposition temperature:               | No data available                           |
| pH at 20 °C:                             | 7 - 8 / 100,0 weight-%                      |
| Viscosity at °C:                         | 50-55 Poise                                 |
| Solubility(ies):                         |                                             |
| Water solubility at 20 °C:               | partially soluble                           |
| Partition coefficient: n-octanol/water:  | see section 12                              |
| Vapour pressure at 20 °C:                | 0,2 mbar<br>Source: Propane-1,2-diol        |
| Density and/or relative density:         |                                             |
| Density at 20 °C:                        | 1,34 g/cm <sup>3</sup><br>Method: DIN 53217 |
| Relative vapour density:                 | No data available                           |
| particle characteristics:                | not applicable                              |

### 9.2. Other information

|                   |             |
|-------------------|-------------|
| Solid content:    | 54 weight-% |
| solvent content:  |             |
| Organic solvents: | 1 weight-%  |
| Water:            | 45 weight-% |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

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**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**SECTION 11: Toxicological information**

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

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**Acute toxicity**

Propane-1,2-diol

oral, LD50, Rat: 22000 mg/kg  
dermal, LD50, Rabbit: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rabbit: 317042 mg/L (2 h)

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

oral, LD50, Rat: 49,6 mg/kg 49,6 - 75 mg/kg  
Method: OECD 401  
dermal, LD50, Rabbit: 92,4 mg/kg  
inhalative (vapours), LC50, Rat: 0,33 mg/L (4 h)  
inhalative (dust and mist), LC50, Rat: 0,171 mg/L (4 h)

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

oral, LD50, Rat: 600 mg/kg

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

oral, LD50, Rat: 670 - 784 mg/kg  
Method: OECD 401  
dermal, LD50, Rat: > 2000 mg/kg

Barium sulfate

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 401

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 425  
dermal, LD50, Rabbit: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rat: 3,43 - 5,09 mg/L (4 h)  
Method: OECD 403

**Skin corrosion/irritation; Serious eye damage/eye irritation**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Skin, Rabbit (4 h)  
Corrosive  
eyes, Rabbit  
Risk of serious damage to eyes.

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

Skin, Rabbit  
Method: OECD 404  
mild irritant.  
eyes, Rabbit  
Method: OECD 405  
strongly irritant.

**Respiratory or skin sensitisation**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Skin, Guinea pig: ; Evaluation sensitising  
Method: OECD 406

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

Skin, Guinea pig:  
Method: OECD 406  
Skin sensitisation

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**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

**STOT-single exposure; 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.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Propane-1,2-diol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 40613 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Mysidopsis bahia: 18340 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 19000 mg/L (96 h)

Method: OECD 201

Bacteria toxicity, NOEC, Pseudomonas putida: > 20000 mg/L (18 h)

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,22 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,1 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 0,018 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC50, Activated sludge: 7,92 (3 h)

Method: OECD 209

Daphnia toxicity, NOEC, Daphnia magna: 0,004 mg/L (28 d)

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

Fish toxicity, LC50, Oryzias latipes: 173 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 6,7 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 206 mg/L (72 h)

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

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1,6 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 3,27 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Selenastrum capricornutum: 0,11 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC20, Activated sludge: 3,3 mg/L (3 h)

Method: OECD 209

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

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout):  $> 100 \text{ mg/L}$  (96 h)

Daphnia toxicity, LC50, Daphnia magna:  $> 100 \text{ mg/L}$  (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata:  $16 \text{ mg/L}$  (72 h)

#### **Long-term Ecotoxicity**

Propane-1,2-diol

Daphnia toxicity, NOEC, Ceriodaphnia spec:  $13020 \text{ mg/L}$  (7 d)

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout):  $0,098 \text{ mg/L}$  (28 d)

Method: OECD 210

Daphnia toxicity, NOEC, Daphnia magna:  $0,004 \text{ mg/L}$  (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata:  $0,0012 \text{ mg/L}$  (72 h)

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout):  $0,098 \text{ mg/L}$  (28 d)

Method: OECD 210

Dipotassium bis[ $\mu$ -[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-), stereoisomer

Fish toxicity, NOEC, Oryzias latipes:  $300 \text{ mg/L}$  (14 d)

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

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout):  $0,21 \text{ mg/L}$  (28 d)

Method: OECD 215

Daphnia toxicity, NOEC, Daphnia magna (Big water flea):  $1,2 \text{ mg/L}$  (21 d)

Method: OECD 211

Algae toxicity, NOEC, Selenastrum capricornutum:  $0,04 \text{ mg/L}$  (72 h)

Method: OECD 201

#### **12.2. Persistence and degradability**

Propane-1,2-diol

Biodegradation:  $81 \%$  (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Biodegradation:  $< 50 \%$  (10 d)

Method: OECD 301B

Not readily biodegradable (according to OECD criteria)

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

Biodegradation:  $85 \%$  (63 d)

Method: OECD 301C

Moderately/partially biodegradable.

#### **12.3. Bioaccumulative potential**

Propane-1,2-diol

Partition coefficient n-octanol /water (log P O/W)::  $-1,07$

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Partition coefficient: n-octanol/water:  $-0,71 - -0,75$

Method: OECD 107

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

Partition coefficient n-octanol /water (log P O/W)::  $0,7$

Method: OECD 117

#### **Bioconcentration factor (BCF)**

Propane-1,2-diol

Bioconcentration factor (BCF):  $0,09$

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Bioconcentration factor (BCF):  $3,6$

Method: OECD 107

Does not accumulate in organisms.

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

Bioconcentration factor (BCF): 6,95

Method: OECD 305

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

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

**12.4. Mobility in soil**

Toxicological data are not available.

**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.

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

\*

**Appropriate disposal / Product  
Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

080112 waste paint and varnish other than those mentioned in 08 01 11

**Appropriate disposal / Package  
Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number or ID number**

No data available

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

No data available

**14.4. Packing group**

No data available

**14.5. Environmental hazards**

Land transport (ADR/RID)

No data available

Marine pollutant

No data available

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

Tunnel restriction code

-

**Sea transport (IMDG)**

EmS-No.

No data available

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

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**SECTION 15: Regulatory information**

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

**EU legislation**

**Regulation (EU) No. 528/2012 on biocides**

Treated goods

The mixture contains biocidal active ingredients.

bronopol (INN)

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

3-Iodo-2-propynyl butylcarbamate

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

Sodium benzoate

Pyridine-2-thiol 1-oxide, sodium salt

**Use**

Main group 2: Preservatives

Product-type 6: Preservatives for products during storage

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

This product is not classified according to Directive 2012/18/EU.

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/d) ; VOC limit value: 130 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 130

**Use restriction according to REACH annex XVII, no.: 78**

This product contains synthetic polymer microparticles.

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No.       | Designation                                                                                                                           | REACH No.        |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 234-293-3<br>11071-15-1 | Dipotassium bis[μ-[tartrato(4-)-O1,O2:O3,O4]]diantimonate(2-) stereoisomer                                                            | 01-2120767962-40 |
| 220-120-9<br>2634-33-5  | 1,2-Benzisothiazol-3(2H)-one                                                                                                          | 01-2120761540-60 |
| 55965-84-9              | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 01-2120764691-48 |

**SECTION 16: Other information**

**Full text of classification in section 3:**

|                          |                                      |                                                       |
|--------------------------|--------------------------------------|-------------------------------------------------------|
| Acute Tox. 4 / H302      | Acute toxicity (oral)                | Harmful if swallowed.                                 |
| Acute Tox. 4 / H332      | Acute toxicity (inhalative)          | Harmful if inhaled.                                   |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.                               |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.                        |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.                  |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.      |
| Acute Tox. 2 / H330      | Acute toxicity (inhalative)          | Fatal if inhaled.                                     |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.                            |
| Skin Sens. 1A / H317     | Respiratory or skin sensitisation    | May cause an allergic skin reaction.                  |
| Aquatic Acute 1 / H400   | Hazardous to the aquatic environment | Very toxic to aquatic organisms.                      |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects. |
| Acute Tox. 2 / H310      | Acute toxicity (dermal)              | Fatal in contact with skin.                           |
| Acute Tox. 3 / H301      | Acute toxicity (oral)                | Toxic if swallowed.                                   |
| Skin Corr. 1C / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.              |

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**Abbreviations and acronyms**

|           |                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road                               |
| OEL       | Occupational Exposure Limit Value                                                                                 |
| BLV       | Biological Limit Value                                                                                            |
| CAS       | Chemical Abstracts Service                                                                                        |
| CLP       | Classification, Labelling and Packaging                                                                           |
| CMR       | Carcinogenic, Mutagenic and Reprotoxic                                                                            |
| DIN       | German Institute for Standardization / German industrial standard                                                 |
| DNEL      | Derived No-Effect Level                                                                                           |
| EAKV      | European Waste Catalogue Directive                                                                                |
| EC        | Effective Concentration                                                                                           |
| EC        | European Community                                                                                                |
| EN        | European Standard                                                                                                 |
| IATA-DGR  | International Air Transport Association – Dangerous Goods Regulations                                             |
| IBC Code  | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk               |
| ICAO-TI   | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods                                                                   |
| ISO       | International Organization for Standardization                                                                    |
| LC        | Lethal Concentration                                                                                              |
| LD        | Lethal Dose                                                                                                       |
| MAK       | Maximum workplace concentration                                                                                   |
| MARPOL    | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships                       |
| OECD      | Organisation for Economic Cooperation and Development                                                             |
| PBT       | persistent, bioaccumulative, toxic                                                                                |
| PNEC      | Predicted No Effect Concentration                                                                                 |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals                                              |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                                      |
| UN        | United Nations                                                                                                    |
| VOC       | Volatile Organic Compounds                                                                                        |
| vPvB      | very persistent and very bioaccumulative                                                                          |

**Data sources**

Data arise from reference works and literature.

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version