

## Safety data sheet in accordance with Regulation (EC) No 1907/2006

Revision date: 20.04.2020  
Replacement of version 0020 of 15.07.2019

Version: 0021

# *Knauf Aquapanel GmbH & Co. KG*

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

### 1.1 *Product identifier*

Trade name      **AQUAPANEL® Exterior Silicon Synthetic Resin Plaster - white**  
Product number    **KAQ\_0401**  
Item code          **49320**

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

Appropriate use:  
The product is used as a facade plaster/structural plaster.

#### **Recommended restrictions on use:**

Preclude from exposure and handling this product those persons suffering from an allergy and those persons susceptible to respiratory disease.

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

Knauf Aquapanel GmbH & Co. KG  
Zur Helle 11  
D-58638 Iserlohn

Telephone: +49-2374-50360

Fax: +49-2374-5036300

e-mail: [aquapanel.info@knauf.com](mailto:aquapanel.info@knauf.com)

e-mail-address of the competent person responsible for this Safety Data Sheet:

[urban-finking.gefstoff@t-online.de](mailto:urban-finking.gefstoff@t-online.de)

#### **Technical contact:**

Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-2374-50360

Fax: +49-2374-5036300

### 1.4 *Emergency telephone number*

Giftnotruf der Charité - Universitätsmedizin Berlin, Campus Benjamin Franklin, Haus VIII (Wirtschaftsgebäude), UG  
Hindenburgdamm 30, 12203 Berlin  
Telephone: +49-30-30686 700  
(24 hours, Monday – Sunday)

## SECTION 2: Hazards identification

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

Aquatic Chronic 3; H412

The product contains sensitising substances in concentrations above one tenth of the specific concentration limit which leads to a classification of the mixture as skin sensitising.

The special labelling requirements of section 2.8 of Annex II of the Regulation must be applied.

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|                      |   |                 |            |
|----------------------|---|-----------------|------------|
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| Company/Undertaking: | Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn |                 |            |
| Telephone:           | +49-(0)2374-50360   | Revision date:  | 20.04.2020 |

### 2.2 Label elements

|   |  |  |  |
|---|--|--|--|
| Hazard pictogram(s):  | No pictogram is used   |  |  |
| Signal word(s):   | No signal word is used   |  |  |
| Product identifier:   | AQUAPANEL® Exterior Silicon Synthetic Resin Plaster - white  |  |  |
| Hazard statements:  | H412   | Harmful to aquatic life with long lasting effects.   |  |
| Precautionary statements:   | P102   | Keep out of reach of children.   |  |
|   | P262   | Do not get in eyes, on skin, or on clothing.   |  |
|   | P273   | Avoid release to the environment.  |  |
|   | P501   | Dispose of contents/container to an authorized waste disposal site.  |  |
| Supplemental hazard information:  |  |  |  |
|   | EUH208   | Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction. |  |
| Special labelling in accordance with Article 58 (3) of Regulation (EU) No 528/2012: | Treated article according to Regulation (EU) No 528/2012 to ensure the stability and shelf life.<br>Contains pyridine-2-thiol-1-oxide, sodium salt, pyrithione zinc. |  |  |

#### Remark:

- The precautionary statements P102 and P501 must only appear on the label of packaging supplied to the general public.
- According to Article 35 paragraph 2 of Regulation (EC) No 1272/2008 packaging supplied to the general public should not have either a shape or form to mislead consumers.

### 2.3 Other hazards

Persistent or repeated contact with the skin may cause irritations.  
Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.  
Preclude from exposure and handling this product those persons suffering from an allergy and those persons susceptible to respiratory disease.  
Ingestion of the product can cause disorders of the intestinal flora.  
The product is classified as slightly hazardous to water.  
The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

REACH registration number:  
The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] or the registration is scheduled at a later date.

#### Characterisation

This product is a mixture.

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(continued from 3.2 Mixtures)

**Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008**

| CAS No     | EC No         | Identification  | % by weight             | Classification   |
|------------|---------------|---|-------------------------|--|
| 3811-73-2  | 223-296-5     | pyridine-2-thiol-1-oxide, sodium salt   | < 0.1                   | Acute Tox. 4; H302<br>Acute Tox. 3; H311<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H332<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-factor: M = 100<br>M-factor (chronic): M = 10                                     |
| 2634-33-5  | 220-120-9     | 1,2-benzisothiazol-3(2H)-one  | ≥ 0.005 - < 0.05        | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>Eye Dam. 1; H318<br>Aquatic Acute 1; H400<br>M-factor: M = 10   |
| 26530-20-1 | 247-761-7     | 2-octyl-2H-isothiazol-3-one   | ≥ 0.005 - < 0.05        | Acute Tox. 4; H302<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Skin Sens. 1; H317<br>Acute Tox. 3; H331<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-factor: M = 1<br>M-factor (chronic): M = 1  |
| 13463-41-7 | 236-671-3     | pyrithione zinc   | < 0.025                 | Acute Tox. 3; H301<br>Eye Dam. 1; H318<br>Acute Tox. 3; H331<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-factor: M = 100<br>M-factor (chronic): M = 10  |
| 886-50-0   | 212-950-5     | terbutryn   | < 0.01                  | Acute Tox. 4; H302<br>Skin Sens. 1B; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-factor: M = 100<br>M-factor (chronic): M = 100  |
| 2682-20-4  | 220-239-6     | 2-methylisothiazol-3(2H)-one  | ≥ 0.00015 –<br>< 0.0015 | Acute Tox. 3; H301<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Skin Sens. 1; H317<br>Eye Dam. 1; H318<br>Acute Tox. 2; H330<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br>M-factor (acute): M = 10<br>M-factor (chronic): M = 1 |
| 55965-84-9 | not available | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | ≥ 0.00015 –<br>< 0.0015 | Acute Tox. 3; H301<br>Acute Tox. 2; H310<br>Skin Corr. 1C; H314<br>Skin Sens. 1A; H317<br>Eye Dam. 1; H318<br>Acute Tox. 2; H330<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br>M-factor: M = 100<br>M-factor (chronic): M = 100     |

See subsection 2.2 for further details. Full text of the hazard statements see Section 16.

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(continued from 3.2 Mixtures)

### Substances for which Union workplace exposure limits have been assigned (see also Section 8.)

No substances.

#### Additional information

Specific concentration limits for 1,2-benzisothiazol-3(2H)-one in accordance with Annex VI of Regulation (EC) No 1272/2008:

Skin Sens. 1; H317:  $C \geq 0.05\%$

Specific concentration limits for 2-octyl-2H-isothiazol-3-one in accordance with Annex VI of Regulation (EC) No 1272/2008:

Skin Sens. 1; H317:  $C \geq 0.05\%$

Specific concentration limits for 2-methylisothiazol-3(2H)-one in accordance with Annex VI of Regulation (EC) No 1272/2008:

Skin Sens. 1; H317:  $C \geq 0.0015\%$

Specific concentration limits for reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) in accordance with Annex VI of Regulation (EC) No 1272/2008:

Eye Dam. 1; H318:  $C \geq 0.6\%$

Eye Irrit. 2; H319:  $0.06\% \leq C < 0.6\%$

Skin Corr. 1C; H314:  $C \geq 0.6\%$

Skin Irrit. 2; H315:  $0.06\% \leq C < 0.6\%$

Skin Sens. 1A; H317:  $C \geq 0.0015\%$

The product contains titanium dioxide. National occupational exposure limit values for various EU member states have been assigned (see subsection 8.1).

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing immediately and wash before reuse.

Emergency eyewash should be provided in the immediate working surroundings.

#### In case of inhalation

Take affected person to fresh air. By continuous complaints seek medical advice.

#### In case of contact with skin

In case of contact with skin wash off immediately with soap and water. Do not wash with solvents or diluting agent. By continuous complaints seek medical advice.

#### In case of contact with eyes

In case of contact with eyes, rinse 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.

#### In case of ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do not induce vomiting. Put victim at rest. Summon a doctor immediately.

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

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Possible allergic reaction in case of skin contact.

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

Treat symptomatically. No information available.

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## SECTION 5: Firefighting measures

### 5.1 *Extinguishing media*

#### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, dry powder, water spray jet..

#### **Unsuitable extinguishing media**

Full water jet.

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

In the event of fire the following can be released: toxic pyrolysis products (e.g. carbon dioxide, carbon monoxide).

### 5.3 *Advice for firefighters*

Wear self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Aqueous product is not combustible as long as the water fraction is present.

## SECTION 6: Accidental release measures

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

#### **For non-emergency personnel**

Ensure adequate ventilation. Use personal protective clothing. Keep away from unprotected people.

#### **For emergency responders**

For suitable fabric for personal protective clothing see Section 8.

### 6.2 *Environmental precautions*

Do not discharge into the drains, the aquatic environment and soil.

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

Absorb with liquid-binding material (e.g. sand, kieselguhr, acid binder, universal binder).

Send in suitable containers for recovery or disposal.

Clean contaminated floors and objects thoroughly with detergents, do not use solvents.

### 6.4 *Reference to other sections*

For personal protective equipment see also Section 8. For disposal considerations see also Section 13.

## SECTION 7: Handling and storage

### 7.1 *Precautions for safe handling*

#### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).

Comply with the minimum standards in accordance with TRGS 500<sup>1</sup>.

Moreover, comply with the protective measures in accordance with TRGS 401<sup>1</sup>.

In designing the work process the model solutions of the Control Guidance Sheet 120<sup>1</sup> must be taken into consideration in case of small-area skin contact (e.g. splashes) regardless on the duration of skin contact.

In designing the work process the model solutions of the Control Guidance Sheet 120<sup>1</sup> must be taken into consideration in case of large-area skin contact (wetting of the skin) and short-term effect (duration of skin contact less than 15 minutes per shift).

In designing the work process the model solutions of the Control Guidance Sheets 120<sup>1</sup> and 250<sup>1</sup> must be taken into consideration in case of large-area skin contact (wetting of the skin) and long-term effect (duration of skin contact more than 15 minutes per shift).

#### **Advice on general occupational hygiene**

Avoid contact with eyes and skin. Take off contaminated clothing immediately and wash before reuse.

At work do not eat, drink, smoke or take drugs.

Clean skin thoroughly after work and before breaks; apply skin cream.

Use barrier skin cream. Set out skin protection guidelines.

Emergency eyewash should be provided in the immediate working surroundings.

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**7.2 Conditions for safe storage, including any incompatibilities**

**Advice on protection against fire and explosion**

No special measures necessary.

Aqueous product is not combustible as long as the water fraction is present.

**Requirements for storage rooms and vessels**

Keep container tightly closed.

Keep only in the original container in a dry, well ventilated place.

**Advice on storage compatibility**

Do not store together with strong acidic and alkaline materials and oxidising agents.

The information about joint storage given in Table 2 of TRGS 510<sup>1</sup> must be observed.

**Further information on storage conditions**

Protect from heat and direct sunlight. Protect from frost.

Recommended storage temperature: + 5°C up to + 25°C.

Storage life: 24 months in the unopened original container.

**Storage class (for Germany only)**

LGK 12 (non-combustible liquids) in accordance with TRGS 510<sup>1</sup>.

**7.3 Specific end use(s)**

The product is only intended for the uses mentioned under subsection 1.2.

For outdoor use. Observe technical data sheet.

In accordance with GISBAU (Information system of the the German professional associations for building and construction industry):

GISCODE<sup>4</sup>: BSW50 (covering agents, water based, solvent-containing, protective film)

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

| CAS number | Identification   | Limit values   | Remarks  |
|------------|------------------|--|--|
| 13463-67-7 | titanium dioxide | 10 mg/m <sup>3</sup><br>6 mg/m <sup>3</sup> total dust<br>5 mg/m <sup>3</sup><br>11 mg/m <sup>3</sup> inhalable aerosol<br>10 mg/m <sup>3</sup> inhalable dust<br>1.25 mg/m <sup>3</sup> respirable dust<br>10 mg/m <sup>3</sup> inhalable fraction<br>4 mg/m <sup>3</sup> respirable fraction<br>10 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup><br>5 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup> inhalable aerosol<br>5 mg/m <sup>3</sup> inhalable aerosol<br>10 mg/m <sup>3</sup> inhalable aerosol<br>4 mg/m <sup>3</sup> respirable aerosol | <b>National limit values – eight hours</b><br>Belgium<br>Denmark<br>Estonia<br>France<br>Germany<br>Germany<br>Ireland<br>Ireland<br>Latvia<br>Poland<br>Romania<br>Slovakia<br>Spain<br>Sweden<br>United Kingdom<br>United Kingdom<br><b>National limit values – short term</b><br>Denmark<br>Germany<br>Germany<br>Poland<br>Romania |

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 481, EN 482 and EN 689.

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(continued from 8.1 Control parameters)

## PNEC values (Predicted No-Effect Concentration)

### Additional limit values for 1,2-benzisothiazol-3(2H)-one in accordance with the registration dossier:

|                                  |                          |
|----------------------------------|--------------------------|
| aquatic, fresh water:            | 4.03 µg/l                |
| aquatic, intermittent release:   | 1.1 µg/l                 |
| aquatic, marine water:           | 0.403 µg/l               |
| aquatic, intermittent release:   | 110 ng/l                 |
| aquatic, sewage treatment plant: | 1.03 mg/l                |
| sediment, fresh water:           | 49.9 µg/kg <sub>dw</sub> |
| sediment, marine water:          | 4.99 µg/kg <sub>dw</sub> |
| soil environment:                | 3 mg/kg <sub>dw</sub>    |

### Additional limit values for 2-octyl-2H-isothiazol-3-one in accordance with the registration dossier:

|                                |                          |
|--------------------------------|--------------------------|
| aquatic, fresh water:          | 2.2 µg/l                 |
| aquatic, intermittent release: | 1.22 µg/l                |
| aquatic, marine water:         | 0.22 µg/l                |
| aquatic, intermittent release: | 0.122 µg/l               |
| sediment, fresh water:         | 47.5 µg/kg <sub>dw</sub> |
| sediment, marine water:        | 4.75 µg/kg <sub>dw</sub> |
| soil environment:              | 8.2 µg/kg <sub>dw</sub>  |

### Additional limit values for pyrithione zinc in accordance with the registration dossier:

|                                  |                           |
|----------------------------------|---------------------------|
| aquatic, fresh water:            | 90 ng/l                   |
| aquatic, marine water:           | 90 ng/l                   |
| aquatic, sewage treatment plant: | 0.01 mg/l                 |
| sediment, fresh water:           | 0.009 mg/kg <sub>dw</sub> |
| sediment, marine water:          | 0.009 mg/kg <sub>dw</sub> |
| soil environment:                | 1.02 mg/kg <sub>dw</sub>  |

### Additional limit values for 2-methylisothiazol-3(2H)-one in accordance with the registration dossier:

|                                  |                           |
|----------------------------------|---------------------------|
| aquatic, fresh water:            | 3.39 µg/l                 |
| aquatic, intermittent release:   | 3.39 µg/l                 |
| aquatic, marine water:           | 3.39 µg/l                 |
| aquatic, intermittent release:   | 3.39 µg/l                 |
| aquatic, sewage treatment plant: | 0.23 mg/l                 |
| soil environment:                | 0.047 mg/kg <sub>dw</sub> |

### Additional limit values for reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) in accordance with the registration dossier:

|                                  |                           |
|----------------------------------|---------------------------|
| aquatic, fresh water:            | 3.39 µg/l                 |
| aquatic, intermittent release:   | 3.39 µg/l                 |
| aquatic, marine water:           | 3.39 µg/l                 |
| aquatic, intermittent release:   | 3.39 µg/l                 |
| aquatic, sewage treatment plant: | 0.23 mg/l                 |
| sediment, fresh water:           | 0.027 mg/kg <sub>dw</sub> |
| sediment, marine water:          | 0.027 mg/kg <sub>dw</sub> |
| soil environment:                | 0.01 mg/kg <sub>dw</sub>  |

## 8.2 Exposure controls

### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See also subsection 7.1.

### Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/ supplier of the personal protective equipment.

### Eye/face protection



Tightly fitting safety glasses in accordance with EN 166.  
In case of spraying: goggles.

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(continued from 8.2 Exposure controls)

### Hand protection



Protective gloves made of nitrile rubber.  
Wear cotton undermitten if possible.  
The protective gloves to be used must be comply with the specifications of the standard EN 374.

### Body protection

Closed work clothing. In case of spraying: single-use suit.

### Respiratory protection



In case of spraying, higher concentrations and if ventilation insufficient, use a respiratory protection apparatus with respiration filter (particle filter P2).  
The limitations in wearing time according to the DGUV Regel 112-190<sup>2</sup> (rule of the German employers' liability insurance association) for the use of respirators have to be observed.

### Thermal hazards

Not relevant.

### Environmental exposure controls

See Section 6.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                                  |
|---|----------------------------------|
| Physical state:                         | pasty                            |
| Colour:                                 | various                          |
| Odour:                                  | characteristic                   |
| Odour threshold:                        | no data available                |
| pH (as supplied) (20°C):                | 9 (DIN ISO 976)                  |
| Melting point/freezing point (°C):      | 0                                |
| Boiling point and boiling range (°C):   | 100                              |
| Flash point (°C), closed cup:           | not relevant                     |
| Evaporation rate:                       | not determined                   |
| Flammability (solid, gas):              | not relevant                     |
| Upper flammability or explosive limit:  | not relevant                     |
| Lower flammability or explosive limit:  | not relevant                     |
| Vapour pressure (20°C) (hPa):           | no data available                |
| Vapour density (20°C):                  | not determined                   |
| Relative density:                       | no data available                |
| Density (kg/l):                         | approx. 1.80 (DIN EN ISO 2811-1) |
| Solubility in water:                    | completely miscible              |
| Soluble in:                             | not determined                   |
| Partition coefficient: n-octanol/water: | no data available                |
| Auto-ignition temperature (°C):         | not relevant                     |
| Decomposition temperature (°C):         | not determined                   |
| Dynamic viscosity (mPa · s) (20°C):     | no data available                |
| Explosive properties:                   | not explosive                    |
| Oxidising properties:                   | not relevant                     |

### 9.2 Other information

|                 |                         |
|-----------------|-------------------------|
| Content of VOC: | < 1.9% (35 g/l maximum) |
|-----------------|-------------------------|



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## SECTION 10: Stability and reactivity

### 10.1 *Reactivity*

No data available for the product.

### 10.2 *Chemical stability*

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 *Possibility of hazardous reactions*

Possible reaction in case of contact with strong acids, strong alkalies and oxidising agents.

### 10.4 *Conditions to avoid*

When used as intended, no particular conditions known.

### 10.5 *Incompatible materials*

Avoid contact with strong acids, strong alkalies and oxidising agents.

### 10.6 *Hazardous decomposition products*

No hazardous decomposition products known. For hazardous combustion products see subsection 5.2.

## SECTION 11: Toxicological information

### 11.1 *Information on toxicological effects*

The product has not been tested.

#### **Acute toxicity**

|                      |           |                    |
|----------------------|-----------|--------------------|
| LD50 rat, oral       | (mg/kg)   | No data available. |
| LD50 rat, dermal     | (mg/kg)   | No data available. |
| LC50 rat, inhalation | (mg/l/4h) | No data available. |

#### **Skin corrosion/irritation**

No data are available.

#### **Serious eye damage/irritation**

No data are available.

#### **Respiratory or skin sensitisation**

The product has not been tested.

The product contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-octyl-2H-isothiazol-3-one.

These substances are classified as sensitising.

#### **Germ cell mutagenicity**

The mixture does not contain substances classified as germ cell mutagens.

#### **Carcinogenicity**

The mixture does not contain substances classified as carcinogenic.

#### **Reproductive toxicity**

The mixture does not contain substances classified as toxic for the reproduction.

#### **Specific target organ toxicity (STOT)-single exposure**

The mixture does not contain substances classified as being a specific target organ toxicant after single exposure.

#### **Specific target organ toxicity (STOT)-repeated exposure**

The mixture does not contain substances classified as being a specific target organ toxicant after repeated exposure.

#### **Aspiration hazard**

The mixture does not contain aspiration toxicants.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

Persistent or repeated contact with the skin may cause irritations.

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Possible allergic reaction in case of skin contact.

Ingestion of the product can cause disorders of the intestinal flora.

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(continued from 11.1 Information on toxicological effects)

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Persistent or repeated contact with the skin may cause irritations.

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Persons suffering from an allergy may be sensitive to very low concentrations of allergenic substances and should consequently have no further contact with this product (possibility of an allergic reaction).

Ingestion of the product can cause disorders of the intestinal flora.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

|            |           |             |   |
|------------|-----------|-------------|---|
| 96 h LC50  | (fish)    | 2.18 mg/l   | (Oncorhynchus mykiss; rainbow trout)  |
|            |           |             | (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 203)  |
|            |           | 0.122 mg/l  | (2-octyl-2H-isothiazol-3-one) (QSAR)  |
|            |           | 3.2 µg/l    | (Oncorhynchus mykiss; rainbow trout)  |
|            |           |             | (pyrithione zinc) (EPA OPP 72-1)  |
|            |           | 4.77 mg/l   | (Oncorhynchus mykiss; rainbow trout)  |
|            |           |             | (2-methylisothiazol-3(2H)-one) (OECD Test Guideline 203)  |
|            |           | 0.19 mg/l   | (Oncorhynchus mykiss; rainbow trout)  |
|            |           |             | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (EPA OPP 72-1)            |
| 60 d NOEC  | (fish)    | 2 mg/l      | (2-octyl-2H-isothiazol-3-one) (QSAR)  |
| 28 d NOEC  | (fish)    | 1.22 µg/l   | (Pimephales promelas; fathead minnow)   |
|            |           |             | (pyrithione zinc) (OECD Test Guideline 210)   |
| 98 d NOEC  | (fish)    | 2.38 mg/l   | (Oncorhynchus mykiss; rainbow trout)  |
|            |           |             | (2-methylisothiazol-3(2H)-one) (OECD Test Guideline 210)  |
| 35 d NOEC  | (fish)    | ≥ 46.4 µg/l | (Danio rerio; zebrafish)  |
|            |           |             | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (OECD Test Guideline 210) |
| 48 h EC50  | (daphnia) | 2.94 mg/l   | (Daphnia magna)   |
|            |           |             | (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 202)  |
|            |           | 0.181 mg/l  | (2-octyl-2H-isothiazol-3-one) (QSAR)  |
|            |           | 8.2 µg/l    | (Daphnia magna)   |
|            |           |             | (pyrithione zinc) (EPA OPP 72-2)  |
|            |           | 0.934 mg/l  | (Daphnia magna)   |
|            |           |             | (2-methylisothiazol-3(2H)-one) (OECD Test Guideline 202)  |
| 48 h LC50  | (daphnia) | 0.18 mg/l   | (Daphnia magna)   |
|            |           |             | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (EPA OPP 72-2)            |
| 21 d NOEC  | (daphnia) | 0.035 mg/l  | (2-octyl-2H-isothiazol-3-one) (QSAR)  |
|            |           | 22 µg/l     | (Daphnia magna)   |
|            |           |             | (pyrithione zinc) (EPA OPP 72-4)  |
|            |           | 0.044 mg/l  | (Daphnia magna)   |
|            |           |             | (2-methylisothiazol-3(2H)-one) (OECD Test Guideline 211)  |
|            |           | 0.1 mg/l    | (Daphnia magna)   |
|            |           |             | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (EPA OPP 72-4)            |
| 72 h ErC50 | (algae)   | 110 µg/l    | (Pseudokirchneriella subcapitata)   |
|            |           |             | (pyrithione zinc) (OECD Test Guideline 201)   |
| 72 h EC50  | (algae)   | 6.3 µg/l    | (Skeletonema costatum)  |
|            |           |             | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (OECD Test Guideline 201) |

#### Behaviour in sewage works:

The behaviour of the product in sewage treatment plants has not been tested.

Do not discharge into the drains.

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**12.2 Persistence and degradability**

The product has not been tested.

|  |  |
|--|--|
| - 1,2-benzisothiazol-3(2H)-one:  | 85%/63d (OECD Test Guideline 301 C); no biodegradation under test conditions has been observed |
| - 2-octyl-2H-isothiazol-3-one:   | 28d (QSAR); not biodegradable  |
| - pyrithione zinc:   | 39%/28d (OECD Test Guideline 301 B); not readily biodegradable                                 |
| - 2-methylisothiazol-3(2H)-one:  | 55,8%/29d (OECD Test Guideline 301 B)  |
| - reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1): | 62%/29d (OECD Test Guideline 301 B); readily biodegradable                                     |
| Chemical oxygen demand (COD)   | Not relevant.  |
| Biochemical oxygen demand (BOD5)   | Not relevant.  |
| AOX-hint   | Not to apply.  |

**12.3 Bioaccumulative potential**

The product has not been tested.

|  |   |                             |
|--|---|-----------------------------|
| Partition coefficient n-octanol/water: | 0.7 (20°C)  |                             |
|  | (1,2-benzisothiazol-3(2H)-one)  | (EU method A.8)             |
|  | 2.61 (25°C; pH 7)   |                             |
|  | (2-octyl-2H-isothiazol-3-one)   | (QSAR)                      |
|  | 0.9 (25°C; pH 7,5 - < 7,7)  |                             |
|  | (pyrithione zinc)   | (OECD Test Guideline 107)   |
|  | - 0.486 (25°C; pH 7)  |                             |
|  | (2-methylisothiazol-3(2H)-one)  | (OECD Test Guideline 107)   |
|  | 0.75  |                             |
|  | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) | (OECD Test Guideline 107)   |
| Bioconcentration factor BCF:           | 6.62 (1,2-benzisothiazol-3(2H)-one)   | (registration dossier)      |
|  | 1.284 (2-octyl-2H-isothiazol-3-one)   | (QSAR)                      |
|  | 1.4 (pyrithione zinc)   | (OECD Test Guideline 305 E) |
|  | approx. 5.4   |                             |
|  | (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) | (OECD Test Guideline 305 E) |

**12.4 Mobility in soil**

The product has not been tested.

**12.5 Results of PBT and vPvB assessment**

The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

**12.6 Other adverse effects**

|  |                    |
|--|--------------------|
| Ozone depletion potential              | No data available. |
| Photochemical ozone creation potential | No data available. |
| Global warming potential               | No data available. |

The product is classified as slightly hazardous to water.

**Contains according to the formulation following compounds of directives 2006/11/EC and 80/68/EEC:**

List II: biocides and their derivatives not appearing in List I.

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**

Waste disposal according to official state regulations.  
Consult the local waste disposal expert about waste disposal.  
Sewage disposal must be avoided.

**Disposal operations/recovery operations according to Directive 2008/98/EC**

|                      |     |  |
|----------------------|-----|--|
| Disposal operations: | D 9 | Physico-chemical treatment                         |
| Recovery operations: | R 5 | Recycling/reclamation of other inorganic materials |

**Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC**

Not relevant.

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(continued from 13.1 Waste treatment methods)

### Product/unused product

Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin and depending on different processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

### Dried-out product remainders:

EC waste code: 08 01 12  
Waste notation: Waste paint and varnish other than those mentioned in 08 01 11

### Liquid product residues:

EC waste code: 08 01 20  
Waste notation: Aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

### Alternative:

EC waste code: 17 09 04  
Waste notation: Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

### Contaminated packaging

Recommendation: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent: Water.

Packaging that cannot be cleaned:

EC waste code: 15 01 02  
Waste notation: Plastic packaging

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).

### 14.2 UN proper shipping name

Not relevant.

### 14.3 Transport hazard class(es)

Not relevant.

### 14.4 Packing group

Not relevant.

### 14.5 Environmental hazards

Not relevant.

### 14.6 Special precautions for user

Not relevant.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant.

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**SECTION 15: Regulatory information**

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

**Information regarding relevant Union safety, health and environmental provisions**

|                               |   |
|-------------------------------|---|
| Regulation (EC) No 1907/2006: | The mixture does not contain substances classified as substances of very high concern (SVHC) in accordance with Article 57 of the regulation. |
| Regulation (EC) No 1907/2006: | The mixture does not contain substances listed in Annex XIV of the regulation.  |
| Directive 2004/42/EC:         | The product is not subject to Directive 2004/42/EC.   |

**Information regarding national laws/national measures that may be relevant (for Germany only)**

|   |   |
|---|---|
| Indications on restriction of occupation: | Not relevant  |
| Major Accident Ordinance:                 | Not relevant  |
| Fire and explosion hazards:               | Not relevant  |
| Regulation on clean air (TA Luft):        | Not relevant  |
| Water hazard class:                       | WGK 1 – slightly hazardous to water (deduction of the WGK according to Annex 1 No 5.2 AwSV) <sup>3</sup><br>The German Ordinance on facilities for handling substances that are hazardous to water (AwSV) has to be observed. |

|  |  |
|--|--|
| German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): | Articles 6, 7, 8 and 14 must be observed.  |
| Technical Rules for Hazardous Substances <sup>1</sup> :                              | TRGS 400, 401, 500, 510, 555   |
| Rules of the employers' liability insurance association <sup>2</sup> :               | DGUV Regel 112-189, 112-190, 112-192, 112-195<br>DGUV Regel 100-500, chapter 2.29 (processing of coating material) |

Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014<sup>5</sup>: skin contact: hazard group HA  
In accordance with Article 16e of the German Chemicals Act there is an obligation to notify the product at the Federal Institute of Risk Assessment (BfR).

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for a substance in the product.

**SECTION 16: Other information**

**Keeping (restrictions)** Article 8 paragraphs 5 and 6 of the German Ordinance on Hazardous Substances has to be observed. (only for Germany)

**Supply** to industry consumer

**Full text of the hazard statements referred to under subsections 2.1 and 3.2 of the Safety Data Sheet**

|        |   |
|--------|---|
| 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.  |
| H319   | Causes serious eye irritation.  |
| H330   | Fatal if inhaled.   |
| H331   | Toxic if inhaled.   |
| H332   | Harmful if inhaled.   |
| H400   | Very toxic to aquatic life.   |
| H410   | Very toxic to aquatic life with long lasting effects.   |
| H412   | Harmful to aquatic life with long lasting effects.  |
| EUH071 | Corrosive to the respiratory tract.   |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-octyl-2H-isothiazol-3-one.<br>May produce an allergic reaction. |

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### Key to abbreviations and acronyms used in the safety data sheet

|            |   |
|------------|---|
| ADN:       | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure                               |
| ADR:       | Accord européen relatif au transport international des marchandises dangereuses par route   |
| AOX:       | adsorbable organically bound halogens   |
| AwSV:      | Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water) |
| EPA:       | Environmental Protection Agency   |
| ICAO/IATA: | International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations                                   |
| IMDG-Code: | International Maritime Dangerous Goods-Code   |
| LGK:       | Lagerklasse (storage class)   |
| OPP:       | Office of Pesticide Programs  |
| PBT:       | persistent, bioaccumulative and toxic   |
| QSAR:      | Quantitative Structure-Activity Relationship  |
| RID:       | Règlement international concernant le transport des marchandises dangereuses par chemin de fer  |
| TRGS:      | Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)   |
| VCI:       | Verband der chemischen Industrie (German Association of Chemical Industry)  |
| vPvB:      | very persistent and very bioaccumulative  |

### Literature references and sources for data

- <http://www.baua.de>
- <http://www.arbeitssicherheit.de>
- <http://www.umweltbundesamt.de>
- <http://www.wingis-online.de>
- <http://www.baua.de/emkg>

### Method used for the classification of the mixture

The classification was undertaken in accordance with the classification criteria of Annex I of Regulation (EC) No 1272/2008.

### Changes which have been made to the previous version of the safety data sheet

Revised sections: 1.4, 2.2, 2.3, 3.2, 8.1, 9.1, 11.1, 12.1, 12.2, 12.3, 12.6, 15.1, 16

**The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.**

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