

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**JANSEN** 

Article No.: 39-2  
Print date: 07.05.2020  
Version: 12.62

Aqua Wandfliesenlack  
Revision date: 27.04.2020  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Article No. (manufacturer/supplier): 39-2  
Trade name/designation: Aqua Wandfliesenlack  
weiss  
seidenmatt

**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  
Maler-Spezialprodukte  
Hochstadenstraße 22  
D-53474 Bad Neuenahr-Ahrweiler  
Telephone: +49 2641 3897-0  
Telefax: +49 2641 3897-28  
Homepage: www.jansen.de

**Department responsible for information:**

laboratory  
E-mail (competent person): sicherheitsdatenblatt@jansen.de

**1.4. Emergency telephone number**

Emergency telephone number: +49 2641 3897-51  
Only available during office hours.

**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 hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317      Respiratory or skin sensitisation      May cause an allergic skin reaction.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H317      May cause an allergic skin reaction.

**Precautionary Statements**

P101      If medical advice is needed, have product container or label at hand.  
P102      Keep out of reach of children.  
P280      Wear protective gloves and eye/face protection.  
P501      Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

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

**Supplemental hazard information**

No data available

**2.3. Other hazards**

No information available.

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

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### 3.2. Mixtures

**Description** Water-thinnable lacquer on special acrylate dispersion base

#### Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	Wt %
203-961-6 112-34-5 603-096-00-8	01-2119475104-44 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 H319	1 - 1,5
220-120-9 2634-33-5 613-088-00-6	01-2120761540-60 1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0,05	< 0,025
220-239-6 2682-20-4	01-2120764690-50 2-methyl-2H-isothiazol-3-one Acute Tox. 3 H301 / Acute Tox. 3 H311 / Acute Tox. 2 H330 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1) Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,0015 / Acute Tox. 4 H332 >= 3 / Skin Irrit. 2 H315 >= 5 / Eye Irrit. 2 H319 >= 5 / Skin Corr. 1B H314 >= 10 / Acute Tox. 3 H331 >= 25 / Acute Tox. 4 H302 >= 25 / Aquatic Acute 1 H400 >= 25	< 0,025

#### 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.

#### After 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

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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.

**Additional information**

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

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

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**

The usual precautionary measures for handling chemicals should be observed.

**Further information**

No special measures are required.

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

**Requirements for storage rooms and vessels**

No special measures are required. Keep container tightly closed. 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**

Keep away from frost! Keep only in the original container in a cool, well-ventilated place. Take care of instructions on label.

**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**

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

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

Remark: (inhalable fraction)

WEL, TWA: 4 mg/m<sup>3</sup>

Remark: (respirable fraction)

2-(2-butoxyethoxy)ethanol

INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

WEL, TWA: 67,5 mg/m<sup>3</sup>; 10 ppm

WEL, STEL: 101,2 mg/m<sup>3</sup>; 15 ppm

**Additional information**

\*

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

**DNEL:**

1,2-Propanediol

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>

2-(2-butoxyethoxy)ethanol

INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

DNEL long-term dermal (systemic), Workers: 20 mg/kg  
DNEL acute inhalative (local), Workers: 101,2 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 67,5 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 67,5 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 1,25 mg/kg  
DNEL long-term dermal (systemic), Consumer: 10 mg/kg  
DNEL acute inhalative (local), Consumer: 50,6 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 34 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 34 mg/m<sup>3</sup>

Titanium dioxide

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:**

1,2-Propanediol

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

2-(2-butoxyethoxy)ethanol

INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

PNEC aquatic, freshwater: 1 mg/l  
PNEC aquatic, marine water: 0,1 mg/l  
PNEC aquatic, intermittent release: 3,9 mg/l  
PNEC sediment, freshwater: 4,4 mg/kg  
PNEC sediment, marine water: 0,44 mg/kg  
PNEC, soil: 0,32 mg/kg  
PNEC sewage treatment plant (STP): 200 mg/l  
PNEC Secondary Poisoning: 56 mg/kg

Titanium dioxide

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.

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### Personal protection equipment

#### **Respiratory protection**

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**

Wear protective gloves. Suitable material: NBR (Nitrile rubber)

#### **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

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

#### **Appearance:**

**Physical state:** Liquid  
**Colour:** refer to label

**Odour:** characteristic

**Odour threshold:** No data available

**pH at 20 °C:** 4 - 6

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** 100 °C  
Source: Water

**Flash point:** Not applicable.

**Evaporation rate:** No data available

#### **flammability**

**Burning time (s):** No data available

#### **Upper/lower flammability or explosive limits:**

**Lower explosion limit:** 0,8 Vol-%  
Method: literature value

**Upper explosion limit:** No data available

**Vapour pressure at 20 °C:** 0,2 mbar  
Source: 1,2-Propanediol

**Vapour density:** No data available

#### **Relative density:**

**Density at 20 °C:** 1,26 g/cm<sup>3</sup>  
Method: DIN 53217

#### **Solubility(ies):**

**Water solubility (g/L) at 20 °C:** partially soluble

**Partition coefficient: n-octanol/water:** see section 12

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity at 23 °C:** 90 s 6 mm  
Method: DIN 53211

**Explosive properties:** No data available

**Oxidising properties:** No data available

### 9.2. Other information

**Solid content (%):** 51 Wt %

**solvent content:**

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**Organic solvents:** 5 Wt %  
**Water:** 44 Wt %

## 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

### 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

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

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

1,2-Propanediol

oral, LD50, Rat: 22000 mg/kg  
dermal, LD50, Rabbit: > 2000 mg/kg  
inhalative (vapours), LC50, Rat: > 20 mg/l (4 h)

2-(2-butoxyethoxy)ethanol

oral, LD50, Rat: > 2000 mg/kg 2410 - 3305 mg/kg  
dermal, LD50, Rabbit: 2764 mg/kg  
Method: OECD 402  
inhalative (dust and mist), LC50, Rat: > 29 mg/l (2 h)  
Method: OECD 403

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

oral, LD50, Rat: 670 - 784 mg/kg  
Method: OECD 401  
dermal, LD50, Rat: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rat: 0,5 mg/l (4 h)

Titanium dioxide

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

2-(2-butoxyethoxy)ethanol

eyes  
irritant.

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

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

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strongly irritant.

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

May cause an allergic skin reaction.

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

Skin, Guinea pig:

Method: OECD 406

Skin sensitisation

#### **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**

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.

#### **Remark**

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and has not been classified.

### **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**

1,2-Propanediol

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)

2-(2-butoxyethoxy)ethanol

Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 1300 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50: > 100 mg/l (48 h)

Bacteria toxicity, EC50: 255 mg/l

Algae toxicity, EC50, Scenedesmus subspicatus: > 100 mg/l (96 h)

Method: OECD 201

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

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

Daphnia toxicity, EC50, Daphnia pulex (water flea): 1,6 mg/l (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,157 mg/l (72 h)

Bacteria toxicity, EC50, Activated sludge: 34,6 mg/l (3 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)

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Method: OECD 209

Titanium dioxide

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/l (96 h)

Daphnia toxicity, LC50, Daphnia magna: > 100 mg/l (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 16 mg/l (72 h)

#### Long-term Ecotoxicity

1,2-Propanediol

Daphnia toxicity, NOEC, Ceriodaphnia spec: 13020 mg/l (7 d)

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

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,21 mg/l (28 d)

Method: OECD 215

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 1,2 mg/l (21 d)

Method: OECD 211

Algae toxicity, NOEC, Selenastrum capricornutum: 0,04 mg/l (72 h)

Method: OECD 201

#### 12.2. Persistence and degradability

1,2-Propanediol

Biodegradation: 81 % (28 d); evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

2-(2-butoxyethoxy)ethanol

Biodegradation: > 70 % (28 d); evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301E

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

Biodegradation:

Method: OECD 301C

Moderately/partially biodegradable.

#### 12.3. Bioaccumulative potential

1,2-Propanediol

Partition coefficient n-octanol /water (log P O/W):: -0,92

2-(2-butoxyethoxy)ethanol

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

Method: OECD 117

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

Partition coefficient: n-octanol/water: <= 0,32

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

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

Method: OECD 117

#### Bioconcentration factor (BCF)

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

Bioconcentration factor (BCF): 3,16

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

Bioconcentration factor (BCF): 6,95

Titanium dioxide

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. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Appropriate disposal / Product  
Recommendation**



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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.

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

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**

**Recommendation**

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

**SECTION 14: Transport information**

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

No dangerous good in sense of this transport regulation.

14.1. **UN 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. **Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**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/i) ; VOC limit value: 140 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 140

**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 juvenils 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:

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CAS No.		

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220-239-6 2682-20-4	2-methyl-2H-isothiazol-3-one	01-2120764690-50

#### SECTION 16: Other information

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

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / 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 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

##### Classification procedure

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

Skin Sens. 1                      Respiratory or skin sensitisation                      Calculation method.

##### 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
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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2015/830**



Article No.: 39-2 Aqua Wandfliesenlack  
Print date: 07.05.2020 Revision date: 27.04.2020  
Version: 12.62 Issue date: 27.04.2020

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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