

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

JANSEN 

Article No.: 39-2-1 Aqua Wandfliesenlack Finish
Print date: 07.05.2020 Revision date: 27.04.2020
Version: 12.63 Issue 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): 39-2-1
Trade name/designation Aqua Wandfliesenlack Finish
farblos
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 Telephone: +49 2641 3897-0
Hochstadenstraße 22 Telefax: +49 2641 3897-28
D-53474 Bad Neuenahr-Ahrweiler 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
reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
1,2-benzisothiazol-3(2H)-one

Supplemental hazard information

No data available

2.3. Other hazards

No information available.

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SECTION 3: Composition / information on ingredients

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	2,5 - 3
203-905-0 111-76-2 603-014-00-0	01-2119475108-36 2-butoxyethanol Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	1,5 - 2
204-469-4 121-44-8 612-004-00-5	01-2119475467-26 triethylamine Acute Tox. 4 H302 / Acute Tox. 3 H311 / Acute Tox. 3 H331 / Skin Corr. 1A H314 / Eye Dam. 1 H318 / STOT SE 3 H335 / Flam. Liq. 2 H225 Specific concentration limit (SCL): STOT SE 3 H335 >= 1	0,3 - 0,5
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
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
911-418-6 55965-84-9 613-167-00-5	01-2120764691-48 reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 3 H301 / Acute Tox. 2 H310 / Acute Tox. 2 H330 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 10) Specific concentration limit (SCL): Skin Corr. 1B H314 >= 0,6 / Skin Irrit. 2 H315 >= 0,06 / Eye Irrit. 2 H319 >= 0,06 / Skin Sens. 1 H317 >= 0,0015	< 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

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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

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)**

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Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

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/m³; 10 ppm

WEL, STEL: 101,2 mg/m³; 15 ppm

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m³; 25 ppm

WEL, STEL: 246 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

Silicon dioxide

EC No. 231-545-4 / CAS No. 112945-52-5

WEL, TWA: 2,4 mg/m³

Remark: (Silica, amorphous; respirable fraction)

WEL, TWA: 6 mg/m³

Remark: (Silica, amorphous; inhalable fraction)

triethylamine

INDEX No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

WEL, TWA: 8 mg/m³; 2 ppm

WEL, STEL: 17 mg/m³; 4 ppm

Remark: (may be absorbed through the skin)

Additional information

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/m³

DNEL long-term inhalative (systemic), Workers: 168 mg/m³

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/m³

DNEL long-term inhalative (systemic), Consumer: 50 mg/m³

Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

EC No. 246-771-9 / CAS No. 25265-77-4

DNEL long-term dermal (systemic), Workers: 13,9 mg/kg

DNEL long-term inhalative (systemic), Workers: 49 mg/m³

DNEL long-term oral (repeated), Consumer: 8,33 mg/kg

DNEL long-term dermal (systemic), Consumer: 8,33 mg/kg

DNEL long-term inhalative (systemic), Consumer: 14,5 mg/m³

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg

DNEL long-term dermal (systemic), Workers: 125 mg/kg

DNEL acute inhalative (local), Workers: 246 mg/m³

DNEL acute inhalative (systemic), Workers: 1091 mg/m³

DNEL long-term inhalative (systemic), Workers: 98 mg/m³

DNEL short-term oral (acute), Consumer: 26,7 mg/kg

DNEL long-term oral (repeated), Consumer: 6,3 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 89 mg/kg

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DNEL long-term dermal (systemic), Consumer: 75 mg/kg
DNEL acute inhalative (local), Consumer: 426 mg/m³
DNEL acute inhalative (systemic), Consumer: 147 mg/m³
DNEL long-term inhalative (systemic), Consumer: 59 mg/m³

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/m³
DNEL long-term inhalative (local), Workers: 67,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 67,5 mg/m³
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/m³
DNEL long-term inhalative (local), Consumer: 34 mg/m³
DNEL long-term inhalative (systemic), Consumer: 34 mg/m³

triethylamine

INDEX No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

DNEL long-term dermal (systemic), Workers: 12,1 mg/kg
DNEL acute inhalative (local), Workers: 12,6 mg/m³
DNEL acute inhalative (systemic), Workers: 12,6 mg/m³
DNEL long-term inhalative (local), Workers: 8,4 mg/m³
DNEL long-term inhalative (systemic), Workers: 8,4 mg/m³

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

Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

EC No. 246-771-9 / CAS No. 25265-77-4

PNEC aquatic, freshwater: 0,015 mg/l
PNEC aquatic, marine water: 0,002 mg/l
PNEC sediment, freshwater: 0,78 mg/kg
PNEC sediment, marine water: 0,078 mg/kg
PNEC, soil: 0,147 mg/kg
PNEC sewage treatment plant (STP): 7,5 mg/l
PNEC Secondary Poisoning: 66,7 mg/kg

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/l
PNEC aquatic, marine water: 0,88 mg/l
PNEC aquatic, intermittent release: 9,1 mg/l
PNEC sediment, freshwater: 34,6 mg/kg
PNEC sediment, marine water: 3,46 mg/kg
PNEC, soil: 2,33 mg/kg
PNEC sewage treatment plant (STP): 463 mg/l
PNEC Secondary Poisoning: 20 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

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PNEC sewage treatment plant (STP): 200 mg/l
PNEC Secondary Poisoning: 56 mg/kg

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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 / EC No. 911-418-6 / CAS No. 55965-84-9

PNEC aquatic, freshwater: $4,9 \times 10^{-5}$ mg/l
PNEC aquatic, marine water: $9,8 \times 10^{-6}$ mg/l
PNEC sewage treatment plant (STP): $4,5 \times 10^{-6}$ mg/l

triethylamine

INDEX No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

PNEC aquatic, freshwater: 0,11 mg/l
PNEC aquatic, marine water: 0,011 mg/l
PNEC aquatic, intermittent release: 0,064 mg/l
PNEC sediment, freshwater: 1,575 mg/kg
PNEC sediment, marine water: 0,158 mg/kg
PNEC, soil: 0,25 mg/kg
PNEC sewage treatment plant (STP): 100 mg/l

8.2. Exposure controls

Provide good ventilation.

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: no information

Melting point/freezing point: -70 °C
Source: 2-butoxyethanol

Initial boiling point and boiling range: 89 °C
Source: triethylamine

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

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Vapour pressure at 20 °C:	0,89 mbar Source: 2-butoxyethanol
Vapour density:	No data available
Relative density:	
Density at 20 °C:	1,03 g/cm³ 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:	120 s 4 mm Method: DIN 53211
Explosive properties:	No data available
Oxidising properties:	No data available
9.2. Other information	
Solid content (%):	24 Wt %
solvent content:	
Organic solvents:	7 Wt %
Water:	66 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

Silicon dioxide

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (dust and mist), LC50, Rat: > 58,8 mg/l (4 h)

Method: OECD 403

1,2-Propanediol

oral, LD50, Rat: 22000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 20 mg/l (4 h)

Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

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oral, LD50, Rat: 6500 mg/kg
dermal, LD50, Rabbit: 15200 mg/kg

2-butoxyethanol

dermal, LD50, Rat: > 2000 mg/kg
Method: OECD 402
dermal, LD50, Rabbit: 1060 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: 2,2 mg/l (4 h)
oral, LD50, Guinea pig: 1414 mg/kg
Method: OECD 401

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

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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)

triethylamine

oral, LD50, Rat: 730 mg/kg
dermal, LD50, Rabbit: 580 mg/kg
inhalative (vapours), LC50, Rat: 7,22 mg/l (4 h)

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)

Skin corrosion/irritation; Serious eye damage/eye irritation

2-(2-butoxyethoxy)ethanol

eyes
irritant.

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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

May cause an allergic skin reaction.

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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:

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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

Silicon dioxide

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): > 10000 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: > 1000 mg/l (48 h)

Method: OECD 202

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)

Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 33 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna: 147,8 mg/l (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 15 mg/l (72 h)

2-butoxyethanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 1550 mg/l (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/l (72 h)

Method: OECD 201

Bacteria toxicity, Pseudomonas putida: 700 mg/l (16 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

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

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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: 0,048 mg/l (72 h)
Method: OECD 201
Bacteria toxicity, EC50, Activated sludge: 7,92 (3 h)
Method: OECD 209

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)

triethylamine

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 36 mg/l (96 h)
Bacteria toxicity, EC50, Pseudomonas putida: 95 mg/l (17 h)
Daphnia toxicity, LC50, Ceriodaphnia spec: 17 mg/l (48 h)
Algae toxicity, EC50, Desmodesmus subspicatus: 24,8 mg/l (96 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

Long-term Ecotoxicity

1,2-Propanediol

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

2-butoxyethanol

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): > 100 mg/l (96 h)
Method: OECD 204
Daphnia toxicity, NOEC, Daphnia magna: 100 mg/l (21 d)
Method: OECD 211
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 62,5 mg/l (72 h)
Method: OECD 201
Daphnia toxicity, EC50, Daphnia magna: 297 mg/l (21 d)
Method: OECD 211

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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 mg/l (28 d)
Method: OECD 210
Daphnia toxicity, NOEC, Daphnia magna: 0,004 mg/l (21 d)
Method: OECD 211
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,0012 mg/l (72 h)

triethylamine

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 3,2 mg/l (60 d)
Daphnia toxicity, NOEC, Ceriodaphnia spec: 7,1 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

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Biodegradation: 81 % (28 d); evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

2-butoxyethanol

Biodegradation: 90,4 % (28 d); evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301B

2-(2-butoxyethoxy)ethanol

Biodegradation: > 70 % (28 d); evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301E

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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:
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-butoxyethanol

Partition coefficient n-octanol /water (log P O/W):: 0,81

2-(2-butoxyethoxy)ethanol

Partition coefficient n-octanol /water (log P O/W):: 1
Method: OECD 117

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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

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

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

triethylamine

Partition coefficient: n-octanol/water: 1,45

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

Partition coefficient n-octanol /water (log P O/W):: 0,7
Method: OECD 117

Bioconcentration factor (BCF)

reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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.

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

Bioconcentration factor (BCF): 3,16

triethylamine

Bioconcentration factor (BCF): < 0,5

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

Bioconcentration factor (BCF): 6,95

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

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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.

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

Regulation (EU) No. 528/2012 on biocides

Treated goods:

The mixture contains biocidal active ingredients.

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

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

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

Use

Main group 2: Preservatives

Product-type 6: Preservatives for products during storage

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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:

EC No. CAS No.	Designation	REACH No.
203-961-6 112-34-5	2-(2-butoxyethoxy)ethanol	01-2119475104-44
203-905-0 111-76-2	2-butoxyethanol	01-2119475108-36
204-469-4 121-44-8	triethylamine	01-2119475467-26
220-239-6 2682-20-4	2-methyl-2H-isothiazol-3-one	01-2120764690-50
220-120-9 2634-33-5	1,2-benzisothiazol-3(2H)-one	01-2120761540-60
911-418-6 55965-84-9	reaction mass of: 5-chloro-2-methyl-2H-isothiazol-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:

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Skin Corr. 1A / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
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 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.
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 / H310	Acute toxicity (dermal)	Fatal in contact with skin.

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

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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 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.