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

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

1.1. **Product identifier**

Article No. (manufacturer/supplier):	381-46
Trade name/designation	Aqua Methacryl Boden Siegel hellgrau seidenmatt UFI: PF1F-TJUT-1G09-DC6Q

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
Hochstadenstraße 22 Telephone: +49 2641 3897-0
D-53474 Bad Neuenahr-Ahrweiler 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** *

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 in accordance with local/regional/national/international regulations.

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

Supplemental hazard information

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

2.3. **Other hazards**

No information available.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures** *

Description Water-color on acrylate base

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
236-675-5 13463-67-7 022-006-00-2	01-2119489379-17 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2 H351	8 - 10
252-104-2 34590-94-8	01-2119450011-60 (2-methoxymethylethoxy)propanol Substance with a common (EC) occupational exposure limit value.	2 - 2,5
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 Acute toxicity estimate (ATE): ATE (inhalation, dust/mist): 0,50 mg/L	< 0,025
220-239-6 2682-20-4 613-326-00-9	01-2120764690-50 2-Methylisothiazol-3(2H)-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) / EUH071 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	
236-671-3 13463-41-7 613-333-00-7	Zinc pyrithione Repr. 1B H360D / Acute Tox. 2 H330 / Acute Tox. 3 H301 / STOT RE 1 H372 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 (M = 1000) / Aquatic Chronic 1 H410 (M = 10) Acute toxicity estimate (ATE): ATE (oral): 221 mg/kg bw / ATE (inhalation, vapour): 0,14 mg/L	< 0,025
55965-84-9 613-167-00-5	01-2120764691-48 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071 Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0,6 / Skin Irrit. 2 H315 >= 0,06 / Eye Dam. 1 H318 >= 0,6 / Eye Irrit. 2 H319 >= 0,06 / Skin Sens. 1A H317 >= 0,0015 Acute toxicity estimate (ATE): ATE (oral): 49 mg/kg bw / ATE (dermal): 92 mg/kg bw / ATE (inhalation, dust/mist): 0,33 mg/L / ATE (inhalation, dust/mist): 0,17 mg/L	< 0,025

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.

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

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

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

Unsuitable extinguishing media
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

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

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

6.4. **Reference to other sections**
Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

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

Further information
No special measures are required.

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

Requirements for storage rooms and vessels

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

Hints on joint storage

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

Further information on storage conditions

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

7.3. **Specific end use(s)**

Observe technical data sheet.Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]
Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m3
Remark: (respirable fraction)

WEL, TWA: 10 mg/m3
Remark: (inhalable fraction)

(2-methoxymethylethoxy)propanol
EC No. 252-104-2 / CAS No. 34590-94-8

WEL, TWA: 308 mg/m3; 50 ppm
Remark: (may be absorbed through the skin)

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

Additional information

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

DNEL:

Propane-1,2-diol
EC No. 200-338-0 / CAS No. 57-55-6
DNEL long-term inhalative (local), Workers: 10 mg/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

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

(2-methoxymethylethoxy)propanol
EC No. 252-104-2 / CAS No. 34590-94-8
DNEL long-term dermal (systemic), Workers: 65 mg/kg
DNEL long-term inhalative (systemic), Workers: 310 mg/m³

DNEL long-term oral (repeated), Consumer: 1,67 mg/kg
DNEL long-term dermal (systemic), Consumer: 15 mg/kg
DNEL long-term inhalative (systemic), Consumer: 37,2 mg/m³

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]
Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7
DNEL long-term inhalative (local), Workers: 10 mg/m³
DNEL long-term oral (repeated), Consumer: 700 mg/kg

PNEC:

Propane-1,2-diol
EC No. 200-338-0 / CAS No. 57-55-6
PNEC aquatic, freshwater: 260 mg/L
PNEC aquatic, marine water: 26 mg/L
PNEC aquatic, intermittent release: 183 mg/L
PNEC sediment, freshwater: 572 mg/kg
PNEC sediment, marine water: 57,2 mg/kg
PNEC, soil: 50 mg/kg
PNEC sewage treatment plant (STP): 2000 mg/L
PNEC Secondary Poisoning: 1133 mg/kg

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Index No. 613-167-00-5 / CAS No. 55965-84-9
PNEC aquatic, freshwater: 4,9 x10^-5 mg/L
PNEC aquatic, marine water: 9,8 x10^-6 mg/L
PNEC sewage treatment plant (STP): 4,5 x10^-6 mg/L

(2-methoxymethylethoxy)propanol
EC No. 252-104-2 / CAS No. 34590-94-8
PNEC aquatic, freshwater: 19 mg/L
PNEC aquatic, marine water: 1,9 mg/L
PNEC aquatic, intermittent release: 190 mg/L
PNEC sediment, freshwater: 70,2 mg/kg
PNEC sediment, marine water: 7,02 mg/kg
PNEC, soil: 2,74 mg/kg
PNEC sewage treatment plant (STP): 4168 mg/L

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]
Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7
PNEC aquatic, freshwater: 0,184 mg/L
PNEC aquatic, marine water: 0,0184 mg/L
PNEC aquatic, intermittent release: 0,193 mg/L
PNEC sediment, freshwater: 1000 mg/kg
PNEC sediment, marine water: 100 mg/kg
PNEC, soil: 100 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

8.2. **Exposure controls**

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

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.Observe the

weartime limits as specified by the manufacturer.Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

Hand protection
For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Eye/face protection
Wear closely fitting protective glasses in case of splashes.

Body protection
No special measures are necessary.

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

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

SECTION 9: Physical and chemical properties

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

Physical state:	**Liquid**
Colour:	**grey**
Odour:	**mild**
Odour threshold:	**8,5 mg/m³**
Melting point/freezing point:	**No data available**
Initial boiling point and boiling range:	**100 °C**
Flammability:	**No data available**
Lower and upper explosion limit:	
Lower explosion limit:	**No data available**
Upper explosion limit:	**No data available**
Flash point:	**No data available**
Auto-ignition temperature:	**No data available**
Decomposition temperature:	**No data available**
pH at 20 °C:	**7 - 8 / 100,0 weight-%**
Cinematic viscosity (40°C):	**> 20,5 mm²/s**
Viscosity at °C:	**viscous**
Solubility(ies):	
Water solubility at 20 °C:	**partially soluble**
Partition coefficient: n-octanol/water:	**see section 12**
Vapour pressure at 20 °C:	**23 mbar**
Density and/or relative density:	
Density at 20 °C:	**1,26 g/cm³** Method: DIN 53217
Relative vapour density:	**No data available**
particle characteristics:	**not applicable**

9.2. **Other information**

Solid content:	**49 weight-%**
solvent content:	
Organic solvents:	**5 weight-%**
Water:	**46 weight-%**

SECTION 10: Stability and reactivity

10.1. **Reactivity**
No information available.

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

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

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

10.5. **Incompatible materials**
not applicable

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

SECTION 11: Toxicological information

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

Acute toxicity

Propane-1,2-diol
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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
oral, LD50, Rat: 49,6 mg/kg 49,6 - 75 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: 92,4 mg/kg
inhalative (vapours), LC50, Rat: 0,33 mg/L (4 h)
inhalative (dust and mist), LC50, Rat: 0,171 mg/L (4 h)

(2-methoxymethylethoxy)propanol
oral, LD50, Rat: > 4000 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 5000 mg/kg
inhalative (vapours), LC50, Rat: > 275 mg/kg (7 h)

Zinc pyrithione
oral, LD50, Rat: 200 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

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 [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 425
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (dust and mist), LC50, Rat 3,43 - 5,09 mg/L (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

2-(2-butoxyethoxy)ethanol
eyes
irritant.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Skin, Rabbit (4 h)
Corrosive
eyes, Rabbit
Risk of serious damage to eyes.

Zinc pyrithione
eyes, Rabbit
Method: OECD 405
Irreversible damage after single exposure.

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-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Skin, Guinea pig: ; Evaluation sensitising
Method: OECD 406

1,2-Benzisothiazol-3(2H)-one
Skin, Guinea pig:
Method: OECD 406
Skin sensitisation

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

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

Overall assessment on CMR properties

EC No. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
236-671-3 13463-41-7	Zinc pyrithione	Repr. 1B

11.2. **Information on other hazards**

Endocrine disrupting properties
No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity** *

Propane-1,2-diol
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 40613 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Mysidopsis bahia: 18340 mg/L (48 h)
Method: OECD 202
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 19000 mg/L (96 h)
Method: OECD 201
Bacteria toxicity, NOEC, Pseudomonas putida: > 20000 mg/L (18 h)

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-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,22 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,1 mg/L (48 h)
Method: OECD 202
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 0,018 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC50, Activated sludge: 7,92 (3 h)
Method: OECD 209
Daphnia toxicity, NOEC, Daphnia magna: 0,004 mg/L (28 d)

(2-methoxymethylethoxy)propanol
Fish toxicity, LC50, Poecilia reticulata (Guppy): > 1000 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna: 1919 mg/L (48 h)
Algae toxicity, EC50, Selenastrum capricornutum: > 969 mg/L (72 h)

Zinc pyrithione
Fish toxicity, LC50, Danio rerio (zebrafish): 0,0104 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50: 0,051 mg/L (48 h)
Method: OECD 202
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 0,051 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC20, Activated sludge: 1,34 mg/L (3 h)
Method: OECD 209
Bacteria toxicity, EC50, Activated sludge: 2,8 mg/L (3 h)
Method: OECD 209

2-Methylisothiazol-3(2H)-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)
Method: OECD 209

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

Propane-1,2-diol
Daphnia toxicity, NOEC, Ceriodaphnia spec: 13020 mg/L (7 d)

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,098 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)
Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,098 mg/L (28 d)
Method: OECD 210

(2-methoxymethylethoxy)propanol
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 0,5 mg/L (22 d)
Method: OECD 211

Zinc pyrithione
Fish toxicity, NOEC, Brachydanio rerio (zebra-fish): 0,0013 mg/L (28 d)
Method: OECD 215
Daphnia toxicity, NOEC: 0,0022 mg/L (21 d)
Method: OECD 211
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,0149 mg/L (72 h)
Method: OECD 201
Algae toxicity, NOEC, Skeletonema costatum: 0,0005 mg/L (96 h)

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**

Propane-1,2-diol
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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Biodegradation: < 50 % (10 d)
Method: OECD 301B
Not readily biodegradable (according to OECD criteria)

(2-methoxymethylethoxy)propanol
Biodegradation, aerobic: Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

1,2-Benzisothiazol-3(2H)-one
Biodegradation:
Method: OECD 301C
Moderately/partially biodegradable.

12.3. **Bioaccumulative potential**

Propane-1,2-diol
Partition coefficient n-octanol /water (log P O/W):: -1,07

2-(2-butoxyethoxy)ethanol

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Partition coefficient: n-octanol/water: -0,71 - -0,75
Method: OECD 107

(2-methoxymethylethoxy)propanol
Partition coefficient n-octanol /water (log P O/W):: 0,004
Method: OECD 107

Zinc pyrithione
Partition coefficient n-octanol /water (log P O/W):: 1,21
Method: OECD 107

2-Methylisothiazol-3(2H)-one
Partition coefficient: n-octanol/water: <= 0,32
Method: OECD 117

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-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Bioconcentration factor (BCF): 3,6
Method: OECD 107
Does not accumulate in organisms.

2-Methylisothiazol-3(2H)-one
Bioconcentration factor (BCF): 3,16

1,2-Benzisothiazol-3(2H)-one
Bioconcentration factor (BCF): 6,95
Method: OECD 305

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Endocrine disrupting properties**
No information available.

12.7. **Other adverse effects**
No information available.

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

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

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

No dangerous good in sense of this transport regulation.

14.1. **UN number or ID number**

No data available

14.2. **UN proper shipping name**

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

No data available

14.4. **Packing group**

No data available

14.5. **Environmental hazards**

Land transport (ADR/RID)	No data available
Marine pollutant	No data available

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code	-

Sea transport (IMDG)

EmS-No.	No data available

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

No transport as bulk according IBC - Code.

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-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Zinc pyrithione
2-Methylisothiazol-3(2H)-one
1,2-Benzisothiazol-3(2H)-one
Use
Main group 2: Preservatives
Product-type 6: Preservatives for products during storage

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
This product is not classified according to Directive 2012/18/EU.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds
VOC product category: (Cat. A/i) ; VOC limit value: 140 g/l
Maximum VOC content of the product in a ready to use condition (in g/L): 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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**
For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
236-675-5 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	01-2119489379-17

252-104-2 34590-94-8	(2-methoxymethylethoxy)propanol	01-2119450011-60
203-961-6 112-34-5	2-(2-butoxyethoxy)ethanol	01-2119475104-44
220-120-9 2634-33-5	1,2-Benzisothiazol-3(2H)-one	01-2120761540-60
220-239-6 2682-20-4	2-Methylisothiazol-3(2H)-one	01-2120764690-50
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	01-2120764691-48

SECTION 16: Other information *

Full text of classification in section 3:

Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer if inhaled.
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		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.
Repr. 1B / H360D	Reproductive toxicity	May damage the unborn child.
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 2 / H310		Fatal in contact with skin.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.

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

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

* Data changed compared with the previous version