

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

JANSEN

Article No.: 13-50 2K-Aqua Multiprimer GH 20
Print date: 09.02.2026 Revision date: 26.01.2026 EN
Version: 58.97 Issue date: 26.01.2026 Page 1 / 11

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

1.1. Product identifier

Article No. (manufacturer/supplier): 13-50
Trade name/designation: 2K-Aqua Multiprimer GH 20
weiß
seidenglänzend
UFI: 4WME-XJ2U-AG01-TH49

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

Relevant identified uses

Two-component epoxy-based primer; Only in conjunction with hardener

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 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].

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.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H318 Causes serious eye damage.
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 protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard components for labelling

4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and ethylenediamine, polymer with 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane, 2,3-epoxypropyl o-tolyl ether and Epichlorohydrin-polyethyleneglycol polymer
2-Methylisothiazol-3(2H)-one
1,2-Benzisothiazol-3(2H)-one

Supplemental hazard information

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No data available

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description water-dilutable 2-component primer

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and ethylenediamine, polymer with 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane, 2,3-epoxypropyl o-tolyl ether and Epichorohydrin-polyethyleneglycol polymer Eye Dam. 1 H318	10 - 12,5
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	0,0036 - 0,036
220-120-9 2634-33-5 613-088-00-6	01-2120761540-60 1,2-Benzisothiazol-3(2H)-one Acute Tox. 2 H330 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1) Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,036 Acute toxicity estimate (ATE): ATE (oral): 450 mg/kg bw / ATE (inhalation, dust/mist): 0,21 mg/L	0,0036 - 0,036

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.

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

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WEL, TWA: 10 mg/m³
Remark: (inhalable fraction)
WEL, TWA: 4 mg/m³
Remark: (respirable fraction)

Additional information

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

DNEL:

2-Methylisothiazol-3(2H)-one
Index No. 613-326-00-9 / EC No. 220-239-6 / CAS No. 2682-20-4
DNEL acute inhalative (local), Workers: 0,043 mg/m³
DNEL long-term inhalative (local), Workers: 0,021 mg/m³
DNEL long-term oral (repeated), Consumer: 0,027 mg/kg
DNEL acute inhalative (local), Consumer: 0,043 mg/m³
DNEL long-term inhalative (local), Consumer: 0,021 mg/m³
DNEL short-term oral (acute), Consumer: 0,053 mg/kg

1,2-Benzisothiazol-3(2H)-one
Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5
DNEL long-term dermal (systemic), Workers: 0,966 mg/kg
DNEL long-term inhalative (systemic), Workers: 6,81 mg/m³
DNEL long-term dermal (systemic), Consumer: 0,345 mg/kg
DNEL long-term inhalative (systemic), Consumer: 1,2 mg/m³

Barium sulfate
EC No. 231-784-4 / CAS No. 7727-43-7
DNEL long-term oral (repeated), Workers: 10 mg/kg
DNEL long-term inhalative (local), Workers: 10 mg/m³
DNEL long-term inhalative (systemic), Workers: 10 mg/m³
DNEL long-term oral (repeated), Consumer: 13000 mg/kg
DNEL long-term inhalative (systemic), Consumer: 10 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:

2-Methylisothiazol-3(2H)-one
Index No. 613-326-00-9 / EC No. 220-239-6 / CAS No. 2682-20-4
PNEC aquatic, freshwater: 0,0033 mg/L
PNEC aquatic, marine water: 0,0033 mg/L
PNEC aquatic, intermittent release: 0,0033 mg/L
PNEC, soil: 0,0471 mg/kg
PNEC sewage treatment plant (STP): 0,23 mg/L

1,2-Benzisothiazol-3(2H)-one
Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5
PNEC aquatic, freshwater: 0,004 mg/L
PNEC aquatic, marine water: 0,0004 mg/L
PNEC aquatic, intermittent release: 0,0011 mg/L
PNEC sediment, freshwater: 0,0499 mg/kg
PNEC sediment, marine water: 0,0049 mg/kg
PNEC, soil: 3 mg/kg
PNEC sewage treatment plant (STP): 1,03 mg/L

Barium sulfate
EC No. 231-784-4 / CAS No. 7727-43-7
PNEC aquatic, freshwater: 0,115 mg/L
PNEC sediment, freshwater: 600,4 mg/kg
PNEC, soil: 207,7 mg/kg
PNEC sewage treatment plant (STP): 62,2 mg/L

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

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

PNEC aquatic, freshwater: 0,184 mg/L

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

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

PNEC sediment, freshwater: 1000 mg/kg

PNEC sediment, marine water: 100 mg/kg

PNEC, soil: 100 mg/kg

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

8.2. Exposure controls

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

Personal protection equipment

Respiratory protection

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

Hand protection

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

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

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

No special measures are necessary.

Protective measures

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	white
Odour:	mild
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	100 °C Source: Water
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-%
Viscosity at °C:	dickflüssig
Solubility(ies):	

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Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	No data available
Density and/or relative density:	
Density at 20 °C:	1,62 g/cm³ Method: DIN 53217
Relative vapour density:	No data available
particle characteristics:	not applicable

9.2. **Other information**

Solid content:	62 weight-%
solvent content:	
Organic solvents:	0 weight-%
Water:	38 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

2-Methylisothiazol-3(2H)-one

oral, LD50, Rat 232 - 249 mg/kg

dermal, LD50, Rabbit: 200 mg/kg

inhalative (dust and mist), LC50, Rat: 0,11 mg/L (4 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

Barium sulfate

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

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

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 425

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (dust and mist), LC50, Rat 3,43 - 5,09 mg/L (4 h)

Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye damage.

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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.

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

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

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

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)

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Long-term Ecotoxicity

- 2-Methylisothiazol-3(2H)-one
Fish toxicity, NOEC, Pimephales promelas (fathead minnow): 2,1 mg/L (33 d)
Method: OECD 210
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,044 mg/L (21 d)
Method: OECD 211
- 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

- 2-Methylisothiazol-3(2H)-one
Biodegradation: 50 % (29 d)
Method: OECD 301B
Not readily biodegradable (according to OECD criteria)
- 1,2-Benzisothiazol-3(2H)-one
Biodegradation: 85 % (63 d)
Method: OECD 301C
Moderately/partially biodegradable.

12.3. Bioaccumulative potential

- 2-Methylisothiazol-3(2H)-one
Partition coefficient: n-octanol/water: $\leq 0,32$
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)

- 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 $\leq 10 \mu\text{m}$]
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

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

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

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

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*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.

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/j) ; 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:

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EC No. CAS No.	Designation	REACH No.
220-239-6 2682-20-4	2-Methylisothiazol-3(2H)-one	01-2120764690-50
220-120-9 2634-33-5	1,2-Benzisothiazol-3(2H)-one	01-2120761540-60

SECTION 16: Other information

Full text of classification in section 3:

Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.

Classification procedure

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

Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
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
MAK	Maximum workplace concentration
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Data sources

Data arise from reference works and literature.

Further information

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

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



Article No.: 13-50 2K-Aqua Multiprimer GH 20
Print date: 09.02.2026 Revision date: 26.01.2026
Version: 58.97 Issue date: 26.01.2026

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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.