

Revision date: 24.05.2023 Version: 0023

Replacement of version 0022 of 20.06.2022

Knauf Aquapanel GmbH & Co. KG

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

1.1 Product identifier

Trade name AQUAPANEL® Q4 Finish

Product number KAQ_0406
Item code 82637

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

Appropriate use:

The product is used as a ready-to-use joint filling agent.

Recommended restrictions on use:

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

1.3 Details of the supplier of the safety data sheet

Knauf Aquapanel GmbH & Co. KG

Zur Helle 11 D-58638 Iserlohn

Telephone: +49-2374-50360 Fax: +49-2374-5036300

e-mail: aquapanel.info@knauf.com

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

info@gefstoff.de

Technical contact:

Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn Telephone: +49-2374-50360 Fax: +49-2374-5036300

1.4 Emergency telephone number

Giftnotruf der Charité - Universitätsmedizin Berlin, Campus Benjamin Franklin, Haus VIII (Wirtschaftsgebäude), UG

Hindenburgdamm 30, 12203 Berlin

Giftnotruf Berlin +49-30-30686 700 (Advice in German and English)

(24 hours, Monday - Sunday)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

2.2 Label elements

Hazard pictogram(s): No pictogram

Signal word(s): No signal word

Product identifier: AQUAPANEL® Q4 Finish

Hazard statements: Not required

Precautionary statements: P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing

Supplemental hazard information:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special labelling in accordance with Article 58 (3)

of Regulation (EU) No 528/2012: Contains 1,2-benzisothiazol-3(2H)-one, bronopol (INN) to ensure shelf life.

Remark:

- The statement EUH210 must only appear on the label on the packaging of mixtures not intended for the general public.
- The precautionary statement P102 must only appear on the label of packaging supplied to the general public.

2.3 Other hazards

Irritating effects on the eyes cannot be ruled out.

Prolonged contact with the skin can cause defatting of the skin and irritation and/or dermatitis.

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

The product is classified as slightly hazardous to water.

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

The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

REACH registration number:

The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] (exempted from registration or the annual tonnage does not require a registration).

Characterisation

This product is a mixture. It is a water-based joint-filling agent and small amounts of hydrocarbons.

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

CAS No	EC No	Identification	% by weight	Classification
2634-33-5	220-120-9	1,2-benzisothiazol-3(2 <i>H</i>)-one	≥ 0.005 - < 0.05	Acute Tox. 4; H302
				Skin Irrit. 2; H315
				Skin Sens. 1; H317
				Eye Dam. 1; H318
				Aquatic Acute 1; H400
				M-factor: $M = 1$

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

Substances for which there are Union workplace exposure limits (see also Section 8.)

No substances.

Additional information

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

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





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Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn					
Telephone:	+49-(0)2374-50360	Revision date:	24.05.2023		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing immediately and wash before reuse.

Emergency eyewash should be provided in the immediate working surroundings.

In case of inhalation

Ensure supply of fresh air.

In case of contact with skin

In case of contact with skin wash off immediately with soap and water. Do not use solvents.

By continuous complaints take medical treatment.

In case of contact with eves

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do.

In case of ingestion

Rinse out mouth immediately and give plenty of water to drink. Do not induce vomiting.

Never give anything by mouth to an unconscious person.

Take medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Risk of irritating effects on the eyes.

Prolonged contact with the skin can cause defatting of the skin and irritation and/or dermatitis.

Possible allergic reaction in case of skin contact.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet, alcohol-resistant foam, carbon dioxide, dry chemical extinguisher.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: carbon dioxide, carbon monoxide, nitrogen oxides.

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet.

Contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation. Use personal protective clothing.

Keep away from unprotected people.

For emergency responders

For suitable fabric for personal protective clothing see Section 8.





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Pick up with suitable absorbent material (e.g. sand, soil, kieselguhr, vermiculite).

Send in suitable containers for recovery or disposal.

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4 Reference to other sections

For personal protective equipment see also Section 8.

For disposal considerations see also Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation.

Comply with the minimum standards in accordance with TRGS 5001.

Moreover, comply with the protective measures in accordance with TRGS 4011.

In designing the work process the model solutions of the Control Guidance Sheet 120¹ must be taken into consideration in case of small-area skin contact (e.g. splashes) regardless on the duration of skin contact.

In designing the work process the model solutions of the protection guideline 120¹ must be taken into consideration in case of large-area skin contact (wetting of the skin) and short-term effect (duration of skin contact less than 15 minutes per shift).

In designing the work process the model solutions of the Control Guidance Sheets 120¹ and 250¹ must be taken into consideration in case of large-area skin contact (wetting of the skin) and long-term effect (duration of skin contact more than 15 minutes per shift.

Advice on general occupational hygiene

Avoid contact with eyes. void frequent or prolonged contact with skin.

Take off contaminated clothing immediately and wash before reuse.

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

After worktime and before breaks the affected skin areas must be thoroughly cleaned.

After work protect skin by using skin protective cream. Set out skin protection guidelines.

Emergency eyewash should be provided in the immediate working surroundings.

7.2 Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

No special measures necessary.

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Keep only in the original container.

Advice on storage compatibility

Do not store together with oxidising agents, strong acids and strong alkalies.

The information about joint storage given in Table 12 of TRGS 510¹ must be observed.

Further information on storage conditions

Protect from frost, intensive heat and direct sunlight.

Maximum period of storage (time): unopened storage life approx. 12 months.

Storage class (for Germany only)

LGK 12 in accordance with TRGS 5101.

7.3 Specific end use(s)

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

This product can be used as high-quality filling material up to Q4 (premium surface).

Processing temperature: > +10°C.

Observe technical data sheet.

In accordance with GISBAU (Information system of the the German professional associations for

building and construction industry):

GISCODE⁴: BSW20 (covering agents, water based)





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Revision date:

24.05.2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain substances above cut-off values for which exposure limit values have been assigned.

DNEL values

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

worker, long-term exposition: inhalation, systemic effect:

worker, long-term exposition: dermal, systemic effect:

general population, long-term exposition: inhalation, systemic effect:

general population, long-term exposition: dermal, systemic effect:

1.2 mg/m³

general population, long-term exposition: dermal, systemic effect:

0.345 mg/kg_{bw}/d

PNEC values

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

aquatic, fresh water: $4.03 \, \mu g/l$ aquatic, fresh water, intermittent release: $1.1 \,\mu g/l$ aquatic, marine water: $0.403 \,\mu g/l$ aquatic, marine water, intermittent release: 110 ng/l 1.03 mg/l aquatic, sewage treatment plant: sediment, fresh water: $49.9 \mu g/kg_{dw}$ sediment, marine water: $4.99 \mu g/kg_{dw}$ soil environment: 3 mg/kg_{dw}

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

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/ supplier of the personal protective equipment.

Eye/face protection



Tightly fitting safety glasses in accordance with EN 166.

Hand protection



Protective gloves made of nitrile rubber (0.11 mm; breakthrough time 8 h). Wear cotton undermitten if possible.

Under practical conditions, the maximum wearing period can be significantly lower. The protective gloves to be used must be comply with the specifications of the standard EN 374.

Body protection

Closed work clothing.

Respiratory protection



In case of spraying, higher concentrations and if ventilation insufficient, use a respiratory protection apparatus with respiration filter (particle filter P2).

The limitations in wearing time according to the DGUV Regel 112-190² (rule of the German employers' liability insurance association) for the use of respirators have to observed.





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

(continued from 8.2 Exposure controls)

Thermal hazards

Not relevant.

Environmental exposure controls

See Section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Colour: beige, white Odour: characteristic Odour threshold: no data available Melting point/freezing point (°C): no data available Boiling point/initial boiling point/boiling range (°C): no data available Flammability: not flammable Lower explosion limit: not applicable Upper explosion limit: not applicable Flash point (°C), closed cup: not applicable not applicable Auto-ignition temperature (°C): not determined Decomposition temperature (°C): pH (as supplied): no data available 1.8125 - 1.9375 x 10⁶ Kinematic viscosity (mm²/s): Solubility in water (at 20°C): 55 - 75 g/100 ml Soluble in: not determined Partition coefficient: n-octanol/water (log value): no data available no data available Vapour pressure (20°C) (hPa): 1.55 - 1.65Density (g/cm³): Relative vapour density (20°C): not determined Particle characteristics: not applicable

9.2 Other information

Content of VOC: 1.5%

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available for the product.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Reaction with oxidising agents, strong acids and strong alkalies possible.

10.4 Conditions to avoid

No particular conditions known.

10.5 Incompatible materials

Reaction with oxidising agents, strong acids and strong alkalies possible.

10.6 Hazardous decomposition products

No decomposition if used as prescribed.

For hazardous combustion products see subsection 5.2.





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Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

SECTION 11: Toxicological information

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

The mixture has not been tested.

Acute toxicity

LD50 rat, oral (mg/kg) 490 (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 401)

LC50 rat, inhalation (mg/l/4h) No data available.

LD50 rat, dermal (mg/kg) > 2000 (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 402)

Skin corrosion/irritation

Skin irritation, rabbit No data available.

Serious eye damage/irritation

Eye irritation, rabbit No data available.

Respiratory or skin sensitisation

The product has not been tested.

The product contains 1,2-benzisothiazol-3(2H)-one. This substance is classified as sensitising.

Germ cell mutagenicity

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

Carcinogenicity

The mixture does not contain substances classified as carcinogenic.

Reproductive toxicity

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

Specific target organ toxicity (STOT)-single exposure

The mixture contains substances classified as being a specific target organ toxicant after single exposure in concentrations below the cut-off values.

Specific target organ toxicity (STOT)-repeated exposure

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

Aspiration hazard

The mixture does not contain aspiration toxicants.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: irritating effects on the eyes cannot be ruled out.

Skin contact: prolonged contact with the skin can cause defatting of the skin and irritation and/or dermatitis.

Possible allergic reaction in case of skin contact.

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

Eye contact: irritating effects on the eyes cannot be ruled out.

Skin contact: prolonged contact with the skin can cause defatting of the skin and irritation and/or dermatitis.

Persons suffering from an allergy may be sensitive to very low concentrations of allergenic substances

and should consequently have no further contact with this product (possibility of an allergic reaction).

11.2 Information on other hazards

The mixture has not been tested.

Endocrine disrupting properties

The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

Other information

None.





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

96 h LC50 (fish) 2.18 mg/l (Oncorhynchus mykiss; rainbow trout)

(1,2-benzisothiazol-3(2*H*)-one) (OECD Test Guideline 203)

48 h EC50 (daphnia) 2.94 mg/l (Daphnia magna)

(1,2-benzisothiazol-3(2*H*)-one) (OECD Test Guideline 202)

72 h EC50 (algae) 0.0403 mg/l (Pseudokirchneriella subcapitata)

(1,2-benzisothiazol-3(2*H*)-one) (OECD Test Guideline 201)

Behaviour in sewage works:

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

Treat by state-of-the-art technology before discharging into drains.

12.2 Persistence and degradability

The product has not been tested.

1,2-benzisothiazol-3(2*H*)-one: 85%/63d (OECD Test Guideline 301C). Readily biodegradable.

Chemical oxygen demand (COD)

Biochemical oxygen demand (BOD5)

AOX-hint

Not relevant.

Not relevant.

Not to apply.

12.3 Bioaccumulative potential

The product has not been tested. Partition coefficient: n-octanol/water:

0.7 $(20^{\circ}\text{C; pH 7})$ (1,2-benzisothiazol-3(2H)-one) (EU method A.8)

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

12.7 Other adverse effects

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

The product is classified as slightly hazardous to water.

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to official state regulations. Sewage disposal must be avoided.

Consult the local waste disposal expert about waste disposal.

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

Disposal operations: D 9 Physico-chemical treatment

Recovery operations: R 3 Recycling/reclamation of organic substances which are not used

as solvents

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

Not relevant.

Product/unused product

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





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

(continued from 13.1 Waste treatment methods)

Dried-out product remainders:

EC waste code: 08 01 12

Waste notation: Waste paint and varnish other than those mentioned in 08 01 11

Liquid product residues:

EC waste code: 08 01 20

Waste notation: Aqueous suspensions containing paint or varnish other than those

mentioned in 08 01 19

Alternative:

EC waste code: 17 09 04

Waste notation: Mixed construction and demolition wastes other than those mentioned

in 17 09 01, 17 09 02 and 17 09 03

Contaminated packaging

Recommendation: Contaminated packaging should be emptied as far as possible and after

appropriate cleansing may be taken for reuse.

Recommended cleansing agent: Water.

Packaging that cannot be cleaned:

EC waste code: 15 01 02

Waste notation: Plastic packaging

SECTION 14: Transport information

14.1 UN number or ID number

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

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class(es)

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

Not relevant.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant.

SECTION 15: Regulatory information

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

Information regarding relevant Union safety, health and environmental provisions

- Conditions of restriction in accordance

with Annex XVII Regulation (EC) No 1907/2006: N

- The mixture does not contain substances classified as substances of very high concern (SVHC) in accordance with Article 57 of the Regulation (EC) No 1907/2006 in a concentration of 0.1% or more.

- Directive 2010/75/EU: 1.5% volatile organic compounds (VOC)

Directive 2004/42/EC: 1.5% volatile organic compounds (VOC)

- According to Annex C of the CEPE-Guideline "Classification of Decorative Coatings into Categories for the Directive 2004/42/EC" the product is outside the scope of this Directive.





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

(continued from 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture)

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

Indications on restriction of occupation:

Major Accident Ordinance:

Not relevant
Fire and explosion hazards:

Regulation on clean air (TA Luft):

Not relevant
Not relevant.

Water hazard class: WGK 1 – slightly hazardous to water

(deduction of the WGK according to Annex 1

No $5.2 \text{ AwSV})^3$

The German Ordinance on facilities for handling substances that are hazardous to water (AwSV)

has to be observed.

German Ordinance on Hazardous Substances

(in accordance with EC-Directive 98/24/EC): Articles 6, 7, 8 and 14 must be observed.

Technical Rules for Hazardous Substances¹: TRGS 400, 401, 500, 510, 555

Rules of the employers' liability insurance association²: DGUV Regel 112-190, 112-192, 112-195

DGUV Regel 100-500, chapter 2.29 (processing of coating material)

Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal

Institute for Occupational Safety and Health, version 2.2, 2014⁵: skin contact: hazard group HA

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Keeping (restrictions) Article 8 paragraphs 5 and 6 of the German Ordinance on Hazardous Substances has to be

observed. (only for Germany)

Supply to professional user, industrial user, to the general public

Full text of the hazard statements referred to under sections 2 and 3 of the Safety Data Sheet

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction

EUH210 Safety data sheet available on request.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de

navigation intérieure

ADR: Accord relatif au transport international des marchandises dangereuses par route

AOX: adsorbable organically bound halogens

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on

facilities for handling substances that are hazardous to water)

CEPE: Conseil Européen de l'Industrie des Peintures, des Encres d'Imprimerie et des Couleurs d'Arts

(European Council of Paint, Printing Ink and Artist's Colours Industry)

DNEL: Derived No-Effect Level

ICAO/IATA: International Civil Aviation Organisation/International Air Transport Association-Dangerous

Goods Regulations

IMDG-Code: International Maritime Dangerous Goods-Code

IMO: International Maritime Organization

LGK: Lagerklasse (storage class)

OECD: Organisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic PNEC: Predicted No-Effect Concentration

RID: Règlement international concernant le transport des marchandises dangereuses par chemin

de fer





Trade name: AQUAPANEL® Q4 Finish Product number: KAQ_0406

Company/Undertaking: Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn

Telephone: +49-(0)2374-50360 Revision date: 24.05.2023

(continued from Key or legend to abbreviations and acronyms used in the safety data sheet)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
VCI: Verband der chemischen Industrie (German Association of Chemical Industry)

VOC: volatile organic compound

vPvB: very persistent and very bioaccumulative

Literature references and sources for data

- ¹ https://www.baua.de
- ² https://www.arbeitssicherheit.de
- ³ https://www.umweltbundesamt.de
- ⁴ https://www.wingis-online.de
- ⁵ https://www.baua.de/emkg

Method used for the classification of the mixture

The product does not meet the criteria for a classification as hazardous in accordance with the current version of Regulation (EC) No 1272/2008.

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

Revised sections: 3.2, 8.1, 11.1, 12.1, 12.2, 12.3, 16

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

Compiled by: **Dr. Michael Urban**

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