

Safety data sheet in accordance with Regulation (EC) No 1907/2006

Revision date: 14.07.2018
Replacement of version 0009 of 21.07.2017

Version: 0010

Knauf Aquapanel GmbH & Co. KG

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

1.1 *Product identifier*

Trade name **AQUAPANEL® Levelling Fill**
Product number **KAQ_0436**
Item code **89754**

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

Appropriate use:
The product is used as a levelling fill (insulation material).

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:
urban-finking.gefstoff@t-online.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 Berlin, Advice in German and English
Telephone: +49-30-30686 790
(24 hours, Monday – Sunday)

SECTION 2: Hazards identification

2.1 *Classification of the substance or mixture*

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

2.2 *Label elements*

Hazard pictogram(s):	No pictogram
Signal word(s):	No signal word
Product identifier:	Not required
Hazard statements:	Not required
Precautionary statements:	Not required
Supplemental hazard information:	Not required

2.3 *Other hazards*

No special hazards have to be mentioned, however avoid formation of dust during processing and treatment.
The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

REACH registration number:
Ingredient bitumen: 01-2119498290-34-XXXX

Characterisation

This product is a mixture. It is perlite of volcanic origin encased in bitumen.

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

The mixture does not contain substances meeting the criteria for a classification as hazardous in accordance with Regulation (EC) No 1272/2008.

Substances for which Union workplace exposure limits have been assigned (see also Section 8.)

No substances.

Additional information

The product contains quartz. The content of the respirable dust fraction is less than 1% in the dust fraction of perlite.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.
Emergency eyewash should be provided in the immediate working surroundings.

In case of inhalation

If liberated dust is inhaled, ensure supply of fresh air. In the event of symptoms take medical treatment.

In case of contact with skin

In case of skin contact remove contaminations of bitumen immediately with special skin-cleaning agents (vegetable oil is also suitable).

In case of contact with eyes

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.
Do not rub eyes, cornea damage is possible by mechanical stress.

In case of ingestion

Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

If liberated dust is inhaled: irritant effect on the respiratory tract, e.g. burning, coughing.
In case of contact of liberated dust with eyes: burning eyes, tears.

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

Foam, extinguishing powder, carbon dioxide, sand.

Unsuitable extinguishing media

Water.

5.2 Special hazards arising from the substance or mixture

In case of fire risk of formation of toxic pyrolysis products (e.g. hydrogen sulphide).

5.3 Advice for firefighters

Wear self-contained breathing apparatus.
Building material class according to DIN 4102: B2 (flammable).

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SECTION 6: Accidental release measures

6.1 *Personal precautions, protective equipment and emergency procedures*

For non-emergency personnel

Avoid formation of dust. Ensure adequate ventilation. Keep away from unprotected people.

For emergency responders

For suitable fabric for personal protective clothing see Section 8.

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 mechanically. Avoid formation of dust. Use approved industrial vacuum cleaner for removal. Do not use compressed air for cleaning surfaces or clothing.

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 formation of dust. Dust deposits that cannot be avoided must be taken up regularly.

When filling, transferring, or emptying of containers, adequate suctioning close to work place necessary.

Do not compress empty bags, except when contained in another clean bag.

Comply with the minimum standards in accordance with TRGS 500¹.

In case of release of mineral dust, comply with the protective measures in accordance with TRGS 559¹.

In case of dust formation and release of only small amounts of dust (range of grams) the model solutions of the Control Guidance Sheets 100¹ and 110¹ must be taken into consideration in designing the work process.

In case of dust formation and release of medium to large amounts of dust (range of kilograms up to tons) the model solutions of the Control Guidance Sheets 200¹, 208¹ and 240¹ must be additionally taken into consideration in designing the work process.

Advice on general occupational hygiene

Do not inhale dust. Avoid contact with skin and eyes. Take off contaminated clothing and wash before reuse.

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

Wash hands before breaks and 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 only in the original container.

Advice on storage compatibility

Do not store together with oxidising agents and hydrofluoric acid.

The information about joint storage given in Table 2 of TRGS 510¹ must be observed.

Further information on storage conditions

Store in a dry place. Protect from moisture.

Storage class (for Germany only)

LGK 11 (combustible solids) in accordance with TRGS 510¹.

7.3 *Specific end use(s)*

The product is only intended for the uses mentioned under subsection 1.2. Observe technical data sheet.

Recommended use: under dry floor components for height levelling, fire protection, heat insulation and impact sound resistance.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS number	Identification	Limit values	Remarks
93763-70-3	perlite	5 mg/m ³ inhalable aerosol 10 mg/m ³ 4 mg/m ³	National limit value – eight hours Austria Belgium Latvia National limit value – short term Austria
		10 mg/m ³ inhalable aerosol	

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.

In case of dust formation exhaust ventilation at the object (initiation point) is necessary.

In case of release of dust, additionally comply with the protective measures in accordance with TRGS 559.¹

The effectiveness of suitable protective measures must be controlled.

Suitable assessment methods are described in the German TRGS 402¹.

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 (in case of dust formation).

Hand protection



Work gloves for protection against mechanical damage.

Body protection

Closed work clothing.

Respiratory protection



Filtering half mask to protect against particles FFP1 – FFP3 in accordance with EN 149 (in dust-laden atmosphere).

Maximum use concentration for substances with occupational exposure limit values (OELV):

P1-filter up to max. 4 x OELV; P2-filter up to max. 10 x OELV;

P3-filter up to max. 30 x OELV.

These values are only valid for Germany in accordance with the German BGR 190².

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 be observed.

Thermal hazards

Not relevant.

Environmental exposure controls

See Section 6.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid (granulation 0/6)	
Colour:	black	
Odour:	like bitumen	
Odour threshold:	no data available	
pH (as supplied) (20°C):	not relevant	
pH (of an aqueous solution) (20°C):	not relevant	
Melting point/freezing point (°C):	no data available	
Boiling point and boiling range (°C):	> 320 (casing of bitumen)	
Flash point (°C), Cleveland open cup:	> 230 (casing of bitumen)	(ASTM D-92)
Evaporation rate:	not relevant	
Flammability (solid, gas):	not relevant	
Upper flammability or explosive limit:	not determinable	
Lower flammability or explosive limit:	not determinable	
Vapour pressure (20°C) (hPa):	< 1 (casing of bitumen)	
Vapour density (20°C):	not relevant	
Relative density:	no data available	
Bulk density (kg/m ³):	approx. 165	
Solubility in water:	insoluble	
Soluble in:	not determined	
Partition coefficient: n-octanol/water:	not relevant	
Auto-ignition temperature (°C):	no data available	
Decomposition temperature (°C):	no data available	
Dynamic viscosity (mPa · s) (20°C):	not relevant	
Explosive properties:	not explosive	
Oxidising properties:	not relevant	

9.2 Other information

None.

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

Possible reaction in case of contact with strong oxidising agents and hydrofluoric acid.

10.4 Conditions to avoid

Avoid high temperatures (above 200°C) due to a significant decomposition of the casing of bitumen.

10.5 Incompatible materials

Avoid contact with strong oxidising agents and hydrofluoric acid.

10.6 Hazardous decomposition products

Hazardous decomposition products: toxic gases/vapours, carbon oxides, hydrogen sulphide.
For hazardous combustion products see subsection 5.2.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data are available for the product.

Acute toxicity

LD50 rat, oral	(mg/kg)	> 5000	(bitumen) (RTECS) (OECD Test Guideline 401)
LD50 rabbit, dermal	(mg/kg)	> 2000	(bitumen) (IUCLID) (OECD Test Guideline 402)
LC50 rat, inhalation	(mg/l/4h)	No data available.	

Skin corrosion/irritation

Irritant effect on skin (rabbit), 24 h No irritation (bitumen) (IUCLID)

Serious eye damage/irritation

Irritant effect on eyes Slightly irritating (bitumen) (IUCLID)

Respiratory or skin sensitisation

Patch test (guinea pig): No sensitisation (bitumen) (IUCLID)

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 does not contain substances classified as being a specific target organ toxicant after single exposure.

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

If liberated dust is inhaled: irritant effect on the respiratory tract, e.g. burning, coughing.

In case of contact of liberated dust with eyes: burning eyes, tears.

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

If liberated dust is inhaled: irritant effect on the respiratory tract, e.g. burning, coughing.

In case of contact of liberated dust with eyes: burning eyes, tears.

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SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

96 h LC50 (fish)	No data available.
48 h EC50 (daphnia)	No data available.
72 h IC50 (algae)	No data available.

Behaviour in sewage works:

The product is insoluble in water. Can be mechanically refined for the most part in waste water cleaning plants.

12.2 Persistence and degradability

The product has not been tested. The product is insoluble in water.	
Chemical oxygen demand (COD)	No data available.
Biochemical oxygen demand (BOD5)	No data available.
AOX-hint	Not to apply

12.3 Bioaccumulative potential

The product has not been tested.

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 Other adverse effects

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

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

None.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste disposal according to official state regulations.
Consult the local waste disposal expert about waste disposal.
Sewage disposal must be avoided.

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

Disposal operations:	D 9	Physico-chemical treatment
Recovery operations:	R 3/5	Recycling/reclamation of organic substances which are not used as solvents Recycling/reclamation of other inorganic material

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.

EC waste code	17 06 04
Waste notation	Insulation materials other than those mentioned in 17 06 01 and 17 06 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

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SECTION 14: Transport information

- 14.1 UN 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 Transport in bulk according to Annex II of MARPOL and the IBC Code**
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

Regulation (EC) No 1907/2006: Annex V, paragraph 7 (perlite)
(exemptions from the obligation to register)

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

Indications on restriction of occupation: Not relevant
 Major Accident Ordinance: Not relevant
 Fire and explosion hazards: Not relevant
 Regulation on clean air (TA Luft): Number 5.2.1 (exhaust stream in case of liberation of dust during processing and treatment)
 Water hazard class: Non-hazardous to water
 (according to § 3(2) sentence 2 AwSV)³

German Ordinance on Hazardous Substances
 (in accordance with EC-Directive 98/24/EC): Article 6 must be observed.

In case of liberation of dust during processing and treatment:

German ordinance on Hazardous Substances
 (in accordance with EC-Directive 98/24/EC): Articles 7, 8, 9, 14, Annex I No 2
 Regulation on Occupational Medical Prevention (ArbMedVV): Annex, Part 1 (1):

Obligatory prophylaxis: The employer shall arrange occupational medical prophylaxis for workers conducting activities with exposure to inhalable dust, if the occupational exposure limit value is exceeded.
 Annex, Part 1 (2):

Prophylaxis offer: For activities involving inhalable dust occupational medical prevention has to be offered.

Technical Rules for Hazardous Substances¹: TRGS 400, 402, 500, 510, 555, 559
 Rules of the employers' liability insurance association²: DGUV Regel 112-190, 112-192, 112-195
 Information of the employers' liability insurance association²: DGUV Information 250-403

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, 2014⁴: inhalation: hazard group A
 (in case of release of mineral dust, the protective measures in accordance with TRGS 559¹ should be applied preferably)

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15.2 Chemical safety assessment

No chemical safety assessment has been carried out for a substance in the product.

SECTION 16: Other information

Keeping (restrictions) Not relevant
Supply to industry consumer

Full text of the hazard statements referred to under subsections 2.1 and 3.2 of the Safety Data Sheet

Not to apply.

Key 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 européen relatif au transport international des marchandises dangereuses par route
AOX:	adsorbable organically bound halogens
ASTM:	American Society for Testing and Materials
AwSV:	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
ICAO/IATA:	International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations
IMDG-Code:	International Maritime Dangerous Goods-Code
LGK:	Lagerklasse (storage class)
OECD:	Organisation for Economic Co-operation and Development
PBT:	persistent, bioaccumulative and toxic
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer
TRGS:	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
VCI:	Verband der chemischen Industrie (German Association of Chemical Industry)
vPvB:	very persistent and very bioaccumulative

Literature references and sources for data

- <http://www.baua.de>
- <http://www.arbeitssicherheit.de>
- <http://www.umweltbundesamt.de>
- <http://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: 2.3, 12.5, 15.1

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.

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