Knauf Aquapanel GmbH & Co. KG

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

1.1 Product identifier
Trade name: AQUAPANEL® Exterior Mineral Finish - white
Product number: KAQ_0404
Item code: 100286

1.2 Relevant identified uses of the substance or mixture and uses advised against
Appropriate use:
The product is used as a basecoat.

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
Skin Irrit. 2; H315
Eye Dam. 1; H318
2.2 Label elements

Hazard pictogram(s):

Signal word(s): Danger


Hazard statements:
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements:
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Supplemental hazard information: Not required

Remarks:
- According to Article 35 paragraph 2 of Regulation (EC) No 1272/2008 packaging supplied to the general public should not have either a shape or form to mislead consumers.
- The use of the precautionary statement P102 is necessary for the labelling of the dangerous mixture supplied to the general public.

2.3 Other hazards

Prolonged and repetitive contact with the skin or contact with moist skin can lead to contact dermatitis. Cement may irritate the throat and respiratory tract. Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of damage to the lungs. Avoid absolutely formation of dust during processing and treatment. The product as a solid mixture is deemed to be hazardous to water in general. In case of ingress of water formation of a strong alkaline solution. The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.
SECTION 3: Composition/information on ingredients

3.2 Mixtures
REACH registration number:
Ingredient calcium hydroxide: 01-2119475151-45-XXXX

Characterisation
This product is a mixture. It is a dry mortar based on cement, chalk lime, mineral binding agents and loading material.

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Identification</th>
<th>% by weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>266-043-4</td>
<td>Portland cement (white cement)</td>
<td>5 - &lt; 15</td>
<td>Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>215-137-3</td>
<td>calcium hydroxide</td>
<td>1 - &lt; 5</td>
<td>Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335</td>
</tr>
</tbody>
</table>

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

Substances for which Union workplace exposure limits have been assigned (see also Section 8.)
The product contains quartz in concentrations < 5%. The content of the respirable dust fraction is less than 1%.

Additional information
The hazardous properties of the product indicated by the classification occur in case of contact with moisture or water (alkaline reaction of Portland cement and calcium hydroxide).
The type of the Portland cement used in this product is low in chromate.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Take off contaminated clothing immediately and wash before reuse.
In the immediate working surroundings emergency eye wash must be installed. Label its location conspicuously.

In case of inhalation
Take affected person to fresh air.
Dust in throat and nasal passages must be removed immediately.
By continuous complaints seek medical advice.

In case of contact with skin
In case of contact with skin wash off immediately with plenty of water.
By continuous complaints seek medical advice.

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
If swallowed, rinse mouth with water (only if the person is conscious).
Let water be swallowed in little sips (dilution effect).
Do not induce vomiting. Take medical treatment immediately.

4.2 Most important symptoms and effects, both acute and delayed
After inhalation: coughing, sore throat.
After ingestion: abdominal pains.
After contact with skin: redness, dry skin.
After contact with eyes: serious eye damage.

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
Product itself is non-combustible.
Fire extinguishing method of surrounding areas must be discussed.

Unsuitable extinguishing media
Product itself is non-combustible.
Fire extinguishing method of surrounding areas must be discussed.

5.2 Special hazards arising from the substance or mixture
No particular hazards known.

5.3 Advice for firefighters
Use self-contained breathing apparatus in dust-laden atmosphere.
Collect contaminated firefighting water separately (strong alkaline solution) and dispose of in accordance with the local regulations.
Classification of fire reaction rating as per EN 13501-1: European Class A1 (Non-combustible).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Avoid dust formation.
Use personal protective clothing.
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
Keep away from water. Pick up mechanically. Avoid raising dust.
Do not use compressed air for cleaning surfaces or clothing.
Approved industrial vacuum cleaners or central suction systems should be used for removal of dry product.
Clean up wet product and place in a container. Allow material to dry and solidify before disposal.
Dispose of absorbed material in accordance with the regulations.
After contact with water product is setting up.
Clear contaminated areas thoroughly.

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. Provide good ventilation of working area (local exhaust ventilation if necessary).
- Keep sampling device dry. Always close containers tightly after the removal of product.
- Dust deposits that cannot be avoided must be taken up regularly.
- For bagged mortar used in open-ended mixers, first add the water and then carefully add the basecoat.
- Keep the height of fall low. Start stirring slowly.
- Do not compress empty bags, except when contained in another clean bag.
- When working, do not kneel in fresh basecoat.
- Use only alkali-proof equipment (alkaline reaction after water supply).
- The hazardous properties of the product indicated by the classification occur in case of addition of water.
- Avoid contact with skin and eyes. Comply with the minimum standards in accordance with TRGS 500\(^1\).
- In case of release of mineral dust, comply with the protective measures in accordance with TRGS 559\(^1\).

Inhalation:
- In designing the work process the model solutions of the Control Guidance Sheets 100\(^1\) and 110\(^1\) must be taken into consideration in case of possible release of dust and only small amounts of product (range of grams).
- Moreover, comply with the protective measures in accordance with TRGS 401\(^1\).
- In case of release of mineral dust, comply with the protective measures in accordance with TRGS 559\(^1\).

Skin contact:
- In designing the work process the model solutions of the Control Guidance Sheet 120\(^1\) must be taken into consideration in case of small-area skin contact (e.g. splashes) and short-term effect (duration of skin contact less than 15 minutes per shift). In case of long-term effect (duration of skin contact more than 15 minutes per shift), the model solutions of the Control Guidance Sheet 250\(^1\) must be additionally taken into consideration.
- In designing the work process the model solutions of the Control Guidance Sheets 120\(^1\) and 250\(^1\) must be taken into consideration in case of large-area skin contact (wetting of the skin) regardless of the duration of skin contact.

Advice on general occupational hygiene
- Do not inhale dust. Avoid contact with eyes and skin. At work do not eat, drink, smoke or take drugs.
- Take off contaminated clothing immediately and wash before reuse. Store work clothing separately.
- 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.
- In the immediate working surroundings emergency eye wash must be installed. Label its location conspicuously.

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 in the original container and tightly closed. Store container in a well-ventilated place.
- Do not store in aluminium containers. Risk of corrosion when moisture is present.

Advice on storage compatibility
- Do not store together with acids. Store apart from oxidising agents and explosible agents.
- The information about joint storage given in Table 2 of TRGS 510\(^1\) must be observed.

Further information on storage conditions
- Store in a dry place. Protect from wetness.
- Recommended storage temperature: between +5°C and +25°C.
- Maximum period of storage (time): unopened storage life 12 months.

Storage class (for Germany only)
- LGK 13 (non-combustible solids) in accordance with TRGS 510\(^1\).

7.3 Specific end use(s)
- The product is only intended for the uses mentioned under subsection 1.2. Observe technical data sheet.
- In accordance with GISBAU (Information system of the German employers' liability insurance association for building and construction industry):
- GISCODEx 4, ZP 1 (products containing cement, low in chromium)
### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>CAS number</th>
<th>Identification</th>
<th>Limit values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>Portland cement</td>
<td>5 mg/m³ inhalable aerosol</td>
<td>National limit values – eight hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³ respirable fraction</td>
<td>Austria</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³ inhalable dust</td>
<td>Belgium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³ respirable fraction</td>
<td>Finland</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³ inhalable</td>
<td>Hungary</td>
</tr>
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<td></td>
<td></td>
<td>6 mg/m³ respirable fraction</td>
<td>Ireland</td>
</tr>
<tr>
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<td></td>
<td>4 mg/m³ respirable fraction</td>
<td>Latvia</td>
</tr>
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<td>10 mg/m³ respirable fraction</td>
<td>Spain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³ respirable fraction</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>calcium hydroxide</td>
<td>1 mg/m³ (respirable fraction)</td>
<td>EU-exposure limit value in accordance</td>
</tr>
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<td></td>
<td>4 mg/m³ (respirable fraction)</td>
<td>with Directive (EU) 2017/164</td>
</tr>
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<td>2 mg/m³ respirable fraction</td>
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</tr>
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<td>14808-60-7</td>
<td>quartz</td>
<td>0.15 mg/m³ respirable aerosol</td>
<td>National limit values – eight hours</td>
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<td>0.1 mg/m³</td>
<td>Austria</td>
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<td></td>
<td></td>
<td>0.3 mg/m³ respirable aerosol</td>
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<td>0.1 mg/m³</td>
<td>Denmark</td>
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<td>0.1 mg/m³</td>
<td>Estonia</td>
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<td></td>
<td>0.05 mg/m³ respirable fraction</td>
<td>France</td>
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<td>0.1 mg/m³ respirable aerosol</td>
<td>Hungary</td>
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<td></td>
<td>0.15 mg/m³ respirable aerosol</td>
<td>Ireland</td>
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<td></td>
<td>0.1 mg/m³ respirable aerosol</td>
<td>Lithuania</td>
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<td></td>
<td></td>
<td>0.1 mg/m³ respirable aerosol</td>
<td>Slovakia</td>
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<td></td>
<td></td>
<td>0.075 mg/m³ respirable dust</td>
<td>Spain</td>
</tr>
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<td></td>
<td>0.6 mg/m³ respirable aerosol</td>
<td>The Netherlands</td>
</tr>
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<td></td>
<td>0.2 mg/m³ respirable aerosol</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
</tbody>
</table>

* Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 17 January 2020 at the latest.
(continued from 8.1 Control parameters)

Additional limit values for calcium dihydroxide in accordance with the registration dossier:

- DNEL (Derived No-Effect Level)
  - worker, short-term exposition: inhalation, local effect: \(4 \text{ mg/m}^3\)
  - worker, long-term exposition: inhalation, local effect: \(1 \text{ mg/m}^3\)
  - general population, short-term exposition: inhalation, local effect: \(4 \text{ mg/m}^3\)
  - general population, long-term exposition: inhalation, local effect: \(1 \text{ mg/m}^3\)

- PNEC (Predicted No-Effect Concentration)
  - aquatic, fresh water: \(0.49 \text{ mg/l}\)
  - aquatic, marine water: \(0.32 \text{ mg/l}\)
  - aquatic, intermittent release: \(0.49 \text{ mg/l}\)
  - aquatic, sewage treatment plant: \(3 \text{ mg/l}\)
  - soil environment: \(1080 \text{ mg/kg dw}\)

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.

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 402\(^1\).

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 (in case of dust formation and splashing).

Hand protection

Cotton gloves (nitrile-coated) marked with a CE sign. Wear cotton undermitten if possible.

Suitable gloves for the handling of products containing cement, low in chromium (GISCODE\(^3\); ZP 1) in accordance with GISBAU (Information system of the the German professional associations for building and construction industry):

- ANSELL: Flexitril L27, Fleximix 27 or 35, Hylite, Nitrotough N210, Sol-Knit
- KCL: Sahara, Gobi, Nitex
- MAPA: Stansolv AK 22, Duo-Mix 405, Enduro 328, Titanlite 397, Titanuperlite
- UVEX: uvex Profi Ergo XG 20, uvex phynomic pro

The protective gloves to be used must be comply with the specifications of the standard EN 374.

Body protection

Closed work clothing.
In dust-laden atmosphere: breathing apparatus with particle filter P2 or filtering half mask to protect against particles FFP1 – FFP3 in accordance with EN 149. 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 DGUV Regel 112-190². 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 observed.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>powder</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH (as supplied) (20°C):</td>
<td>not determinable</td>
</tr>
<tr>
<td>pH (of an aqueous solution; 10%):</td>
<td>&gt; 12</td>
</tr>
<tr>
<td>Melting point/freezing point (°C):</td>
<td>not determined</td>
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<tr>
<td>Boiling point and boiling range (°C):</td>
<td>not relevant</td>
</tr>
<tr>
<td>Flash point (°C), closed cup</td>
<td>not relevant</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not relevant</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>not relevant</td>
</tr>
<tr>
<td>Upper flammability or explosive limit:</td>
<td>not relevant</td>
</tr>
<tr>
<td>Lower flammability or explosive limit:</td>
<td>not relevant</td>
</tr>
<tr>
<td>Vapour pressure (20°C) (mbar):</td>
<td>not relevant</td>
</tr>
<tr>
<td>Vapour density (20°C):</td>
<td>not relevant</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Bulk density (kg/l):</td>
<td>1.2 – 1.4</td>
</tr>
<tr>
<td>Solubility in water (at 20°C):</td>
<td>1650 mg/l (calcium hydroxide)</td>
</tr>
<tr>
<td>Soluble in:</td>
<td>not relevant</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>not relevant</td>
</tr>
<tr>
<td>Auto-ignition temperature (°C):</td>
<td>not relevant</td>
</tr>
<tr>
<td>Decomposition temperature (°C):</td>
<td>580 (decomposition of calcium hydroxide)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not relevant</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>not relevant</td>
</tr>
</tbody>
</table>

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
Wet product reacts with aluminium under the formation of hydrogen.
Reaction of moist cement with acids, ammonium salts, aluminium and other base metals.
Cement is soluble in hydrofluoric acid to form toxic and corrosive silicon tetrafluoride gas.

10.4 Conditions to avoid
Avoid influence of moisture before processing (alkaline reaction with water).
Decomposition of calcium hydroxide into calcium oxide and water at temperatures above 580°C.

10.5 Incompatible materials
Calcium hydroxide contained in this product reacts with acids under the formation of calcium salts.
Wet product reacts with aluminium under the formation of hydrogen.
Reaction of moist cement with acids, ammonium salts, aluminium and other base metals.
Cement is soluble in hydrofluoric acid to form toxic and corrosive silicon tetrafluoride gas.

10.6 Hazardous decomposition products
No hazardous decomposition products known.
For hazardous combustion products see subsection 5.2.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
The mixture has not been tested.
The toxicological data mentioned are derived from an analogous product.

Acute toxicity
LD50 rat, oral (mg/kg) 7340 (calcium hydroxide) (RTECS)
LD50 rabbit, dermal (mg/kg) > 2500 (calcium hydroxide) (OECD Test Guideline 402) (information of the manufacturer)
LC50 rat, inhalation (mg/l/4h) No data available.

Skin corrosion/irritation
No data are available.

Serious eye damage/irritation
Irritant effect on eyes (rabbit) Severe eye irritation (Standard Draize test) (calcium hydroxide) (RTECS)

Respiratory or skin sensitisation
The product contains white cement. There is no risk of sensitisation.

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 a substance classified as being a specific target organ toxicant after single exposure in concentrations below the generic concentration limits triggering a classification.

Specific target organ toxicity (STOT)-single exposure
May cause respiratory irritation.
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
After inhalation: coughing, sore throat.
After ingestion: abdominal pains.
After contact with skin: redness, dry skin.
After contact with eyes: serious eye damage.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Prolonged and repetitive contact with the skin or contact with moist skin can lead to contact dermatitis. Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of damage to the lungs.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
96 h LC50 (fish) 50.6 mg/l (Oncorhynchus mykiss: rainbow trout)
48 h EC50 (daphnia) 49.1 mg/l (Daphnia magna)
72 h EC50 (algae) 184.57 mg/l (Pseudokirchneriella subcapitata)

Behaviour in sewage works:
Due to the alkaline character of the product, usually, it has to be neutralised before contaminated effluents are introduced into the waste water treatment system.

12.2 Persistence and degradability
Chemical oxygen demand (COD) No data available.
Biochemical oxygen demand (BOD5) No data available.
AOX-hint Not to apply
The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
The methods for determining the bioaccumulative potential are not applicable to inorganic substances.

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 Not relevant
Photochemical ozone creation potential Not relevant
Global warming potential Not relevant
The product as a solid mixture is deemed to be hazardous to water in general. In case of ingress of water formation of a strong alkaline solution. Increase of pH-value possible after release of large amounts into the aquatic environment.
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.
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 5 Recycling/reclamation of other inorganic materials

Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC
HP 4: Irritant

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.

Dried-out product remainders:
EC waste code: 17 01 01
Waste notation: Concrete

Unused product:
EC waste code: 17 01 06
Waste notation: Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances

Contaminated packaging
Recommendation: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Recommended cleansing agent: Immediately clean with water.
Hardened product can only be removed mechanically.

Packaging that cannot be cleaned:
EC waste code: 15 01 10
Waste notation: Packaging containing residues of or contaminated by dangerous substances

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 XVII, point 47 (Chromium VI compounds)
Observe Directive 2003/53/EC.
Observe employment restrictions under the law for the protection of young people at work (94/33/EC).
Observe Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Information regarding national laws/national measures that may be relevant (for Germany only)
Restriction of occupation: Youth Employment Protection Act must be observed
Major-accident Ordinance: Not relevant
Fire and explosion hazards: Not relevant
Regulation on clean air (TA Luft): Number 5.2.1
Fire and explosion hazards: Not relevant
Water hazard class: The product as a solid mixture is deemed to be hazardous to water in general in accordance with § 3(2) point 8 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):
Regulation on Occupational Medical Prevention (ArbMedVV): Articles 6, 7, 8, 9, 14, Annex I No 2 must be
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:
Rules of the employers’ liability insurance association2: TRGS 400, 401, 402, 500, 510, 555, 559, 600, 900
Information of the employers’ liability insurance association2: DGUV Regel 112-189, 112-190, 112-192, 112-195
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, 20143: (in case of release of mineral dust, the protective measures in accordance with TRGS 559 should be applied preferably)

In accordance with Article 16e of the German Chemicals Act there is an obligation to notify the product at the Federal Institute of Risk Assessment (BfR).

15.2 Chemical safety assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
calcium hydroxide.
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 industry consumer

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

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
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
IUCLID: International Uniform Chemical Information Database
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
RTECS: Registry of Toxic Effects of Chemical Substances
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
vPvB: very persistent and very bioaccumulative

Literature references and sources for data

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

Method used for the classification of the mixture

The classification was undertaken in accordance with the classification criteria of Annex I of Regulation (EC) No 1272/2008.

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

Revised sections: 2.2, 3.2, 8.1, 8.2, 9.1

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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