

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

Revision date: 29.06.2015  
Replacement of version 0011 of 20.06.2014

Version: 0012

# *Knauf Aquapanel GmbH & Co. KG*

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 *Product identifier*

Trade name        **AQUAPANEL® Exterior Basecoat – white**  
Product number    **KAQ\_0410**  
Item code         **102812**

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

Appropriate use:

The product is used as a basecoat.

Identified uses and use descriptors according to ECHA Guidance on information requirements and chemical safety assessment, Chapter R.12 (Use descriptor system) are listed in subsection 16.3.

#### **Recommended restrictions on use:**

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

### 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](mailto:aquapanel.info@knauf.com)

#### **Technical contact:**

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

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

Trade name:	AQUAPANEL® Exterior Basecoat – white	Product number:	KAQ_0410
Company/Undertaking:	Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn	Date issued:	
Telephone:	+49-(0)2374-50360	Revision date:	29.06.2015

## 2. Hazards identification

### 2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008

Skin Irrit. 2; H315  
 Eye Dam. 1; H318  
 STOT SE 3; H335

### 2.2 Label elements in accordance with Regulation (EC) No 1272/2008

Hazard pictogram(s):



Signal word(s):

Danger

Product identifier:

AQUAPANEL® Exterior Basecoat – white  
 contains Portland cement, calcium hydroxide

Hazard statements:

H315  
 H318  
 H335

Causes skin irritation.  
 Causes serious eye damage.  
 May cause respiratory irritation.

Precautionary statements:

P102  
 P261  
 P271  
 P280  
  
 P305 + P351 + P338  
  
 P315  
 P302 + P352  
 P332 + P313  
 P362 + P364  
 P304 + P340  
  
 P501

Keep out of reach of children.  
 Avoid breathing dust.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/  
 face protection.  
 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue  
 rinsing.  
 Get immediate medical advice/attention.  
 IF ON SKIN: Wash with plenty of water and soap.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 IF INHALED: Remove person to fresh air and keep comfortable  
 for breathing.  
 Dispose of contents/container to hazardous or special waste  
 collection point.

Supplemental label for certain mixtures:

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 precautionary statements P102 and P501 must only appear on the label of packaging 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.  
 Quartz is known to be a silicosis-producing substance to human.  
 Avoid absolutely formation of dust during processing and treatment.  
 The product is classified as low hazardous to water.  
 In case of ingress of water formation of a strong alkaline solution.  
 This mixture does not contain any substances classified as PBT/vPvB.

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### 3. Composition/information on ingredients

#### 3.2 Mixtures

REACH registration number:

Ingredient calcium hydroxide: 01-2119475151-45-XXXX

##### 3.2.1 Characterisation

This product is a mixture. It is a dry mortar based on special cements (low in chromium VI), loading material (quartz sand, hydrate of white lime, limestone flour), thickening agents (cellulose ether) and copolymers based on vinyl chloride, ethylene and vinyl esters.

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

CAS No	EC No	Identification	% by weight	Classification
65997-15-1	266-043-4	Portland cement (white cement)	≥ 20	Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335
1305-62-0	215-137-3	calcium hydroxide	5 - < 10	Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335

See subsection 2.2 for further details. Full text of the hazard statements see subsection 16.2.

##### 3.2.3 Substances which are assigned Community workplace exposure limits and which are not already included under point 3.2.2 (see also Section 8.)

No substances.

#### 3.3 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 listed above under point 3.2.2 is low in chromate.

The product contains quartz in concentrations > 50 - < 60%. The content of the respirable dust fraction is less than 1%.

### 4. First aid measures

#### 4.1 Description of first aid measures

##### 4.1.1 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.

##### 4.1.2 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.

##### 4.1.3 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.

##### 4.1.4 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.

##### 4.1.5 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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available.

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## 5. Firefighting measures

### 5.1 *Extinguishing media*

#### 5.1.1 *Suitable extinguishing media*

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

#### 5.1.2 *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*

In the event of fire the following can be released: hydrogen chloride.

### 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: Euro class A1 (Non-combustible)

## 6. Accidental release measures

### 6.1 *Personal precautions, protective equipment and emergency procedures*

#### 6.1.1 *For non-emergency personnel*

Avoid dust formation. Use personal protective clothing.

Keep away from unprotected people.

#### 6.1.2 *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.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

#### 7.1.1 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 basecoat 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.<sup>1</sup>

Moreover, comply with the protective measures in accordance with TRGS 401.<sup>1</sup>

In case of release of mineral dust, comply with the protective measures in accordance with TRGS 559.<sup>1</sup>

#### **Inhalation:**

In designing the work process the model solutions of the protection guidelines 100<sup>1</sup> and 110<sup>1</sup> must be taken into consideration in case of possible release of dust and only small amounts of product (range of grams).

In designing the work process the model solutions of the protection guidelines 200<sup>1</sup>, 208<sup>1</sup> and 240<sup>1</sup> must be additionally taken into consideration in case of possible release of dust and medium amounts of product (range of kilograms).

In designing the work process the model solutions of the protection guideline 300<sup>1</sup> (closed system) must be taken into consideration in case of possible release of dust and large amounts of product (range of tons).

The consideration of the Good Practice Guide on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it<sup>4</sup> is recommended.

#### **Skin contact:**

In designing the work process the model solutions of the protection guideline 120<sup>1</sup> 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 protection guideline 250<sup>1</sup> must be additionally taken into consideration.

In designing the work process the model solutions of the protection guidelines 120<sup>1</sup> and 250<sup>1</sup> must be taken into consideration in case of large-area skin contact (wetting of the skin) regardless on the duration of skin contact.

#### 7.1.2 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

#### 7.2.1 Advice on protection against fire and explosion

No special measures necessary.

#### 7.2.2 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.

#### 7.2.3 Advice on storage compatibility

Do not store together with acids.

The information about joint storage given in Table 2 of TRGS 510<sup>1</sup> must be observed.

#### 7.2.4 Further information on storage conditions

Store in a dry place. Protect from wetness.

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

#### 7.2.5 Storage class (for Germany only)

LGK 13 (non-combustible solids) in accordance with TRGS 510<sup>1</sup>.

### 7.3 Specific end use(s)

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

In accordance with GISBAU (Information system of the German employers' liability insurance association for building and construction industry):

GISCODE<sup>5</sup>: ZP 1 (products containing cement, low in chromium)

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

CAS number	Identification	Limit values	Remarks
65997-15-1	Portland cement	5 mg/m <sup>3</sup> inhalable aerosol 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> inhalable dust 1 mg/m <sup>3</sup> respirable fraction 10 mg/m <sup>3</sup> inhalable 1 mg/m <sup>3</sup> respirable fraction 6 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> respirable fraction 10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol 10 mg/m <sup>3</sup> inhalable aerosol	<b>National limit values – eight hours</b> Austria Belgium Finland Finland Hungary Ireland Latvia Slovakia Spain United Kingdom United Kingdom <b>National limit values – short term</b> Austria
1305-62-0	calcium hydroxide	5 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> inhalable aerosol 2 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> inhalable aerosol 10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> inhalable aerosol 6 mg/m <sup>3</sup> inhalable dust	EU- indicative occupational exposure limit value (eight hours) Directive 91/322/EEC <b>Different national limit values - eight hours</b> Austria Czech Republic Germany Latvia Sweden <b>Different national limit values – short term</b> Austria Czech Republic Denmark Germany Sweden
CAS number	Identification	Limit values	Remarks
14808-60-7	quartz	0.15 mg/m <sup>3</sup> respirable aerosol 0.1 mg/m <sup>3</sup> 0.3 mg/m <sup>3</sup> inhalable aerosol 0.1 mg/m <sup>3</sup> respirable aerosol 0.1 mg/m <sup>3</sup> 0.05 mg/m <sup>3</sup> respirable fraction 0.1 mg/m <sup>3</sup> respirable aerosol 0.15 mg/m <sup>3</sup> respirable aerosol 0.1 mg/m <sup>3</sup> respirable fraction 0.1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> respirable fraction 0.1 mg/m <sup>3</sup> respirable aerosol 0.075 mg/m <sup>3</sup> respirable dust 0.6 mg/m <sup>3</sup> inhalable aerosol 0.2 mg/m <sup>3</sup> respirable aerosol	<b>National limit values – eight hours</b> Austria Belgium Denmark Denmark Estonia Finland France Hungary Ireland Lithuania Slovakia Spain Sweden The Netherlands <b>National limit values – short term</b> Denmark Denmark

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

-	<b>DNEL (Derived No-Effect Level)</b>	
	worker, short-term exposition: inhalation, local effect:	4 mg/m <sup>3</sup>
	worker, long-term exposition: inhalation, local effect:	1 mg/m <sup>3</sup>
	general population, short-term exposition: inhalation, local effect:	4 mg/m <sup>3</sup>
	general population, long-term exposition: inhalation, local effect:	1 mg/m <sup>3</sup>
-	<b>PNEC (Predicted No-Effect Concentration)</b>	
	aquatic, fresh water:	0.49 mg/l
	aquatic, marine water:	0.329 mg/l
	aquatic, intermittent release:	0.49 mg/l
	aquatic, sewage treatment plant:	3 mg/l
	soil environment:	1080 mg/kg dry weight

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

### 8.2.1 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.<sup>1</sup>

The effectiveness of suitable protective measures must be controlled.

Suitable assessment methods are described in the German TRGS 402<sup>1</sup>.

In order to comply with the occupational exposure limit values there is often a combination of technical and individual protective measures necessary. If there is no adequate measurement of occupational exposure, exposure assessment and selection of appropriate protective measures based on the tool MEASE<sup>6</sup> can be carried out. Appropriate engineering controls (see table of number 8.2.1) and individual protective measures (see table of number 8.2.2.3) are recommended for the use of use descriptors (subsection 16.3) in combination with consumer/industrial use of hydraulic building and construction material. In this case, option A can only be combined with A and option B can only be combined with B.

Measures to reduce the generation of dust and to avoid dust propagation in the environment such as dedusting systems, exhaust ventilation and dry clean-up methods which do not cause airborne dispersion.

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Exposure scenario	PROC (see subsection 16.5)	Exposure	Localised controls	Efficiency
Industrial uses of dry hydraulic building and construction materials (indoor, outdoor)	2	Duration is not restricted (up to 480 minutes per shift, 5 shifts per week)	not required	---
	22,26		A) not required or B) generic local exhaust ventilation	78%
	5, 8b, 9		A) general ventilation or B) generic local exhaust ventilation	17% 78%
Industrial uses of wet suspensions of hydraulic building and construction materials (indoor, outdoor)	2, 5, 8b, 9, 10, 13		not required	---
	7		A) not required or B) generic local exhaust ventilation	78%
Professional use of dry hydraulic building and construction material (indoor, outdoor)	2		not required	---
	9, 26		A) not required or B) generic local exhaust ventilation	72%
	5, 8a, 8b		A) not required or B) generic local exhaust ventilation	87%
	19		localised controls are not applicable, process only in good ventilated rooms or outdoor	50%
Professional uses of wet suspensions of hydraulic building and construction materials (indoor, outdoor)	11		A) not required or B) generic local exhaust ventilation	72%
	2, 5, 8a, 8b, 9, 10, 13, 19		not required	---

### 8.2.2 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.

#### 8.2.2.1 Eye/face protection

Tightly fitting safety glasses in accordance with EN 166 (in case of dust formation and splashing).

#### 8.2.2.2 Skin protection

##### 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<sup>4</sup>: ZP 1) in accordance with GISBAU (Information system of the the German professional associations for building and construction industry):

- ANSELL: Hylite 47-400, Solknit 39-112 bzw. 39-124
- COMASEC: Flexitop, Comanett, Flexitritl/PC, Fleximax 27 bzw. 35
- KCL: Sahara
- MAPA: Stansolv AK 22, Duo-Mix 405
- MARIGOLD: N660 oder G25G
- PROFAS: Profi Ergo, Contact Ergo

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

##### Body protection:

Closed work clothing.



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**8.2.2.3 Respiratory protection**

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 112-190<sup>2</sup>.

The limitations in wearing time according to the DGUV Regel 112-190<sup>2</sup> (rule of the German employers' liability insurance association) for the use of respirators have to be observed.

Exposure scenario	PROC (see subsection 16.5)	Exposure	Specification of respiratory protective equipment (RPE)	Efficiency of RPE – assigned protection factor (APF)
Industrial uses of dry hydraulic building and construction materials (indoor, outdoor)	2	Duration is not restricted (up to 480 minutes per shift, 5 shifts per week)	not required	---
	22,26		A) FFP1 or B) not required	APF = 4  ---
	5, 8b, 9		A) FFP2 or B) FFP1	APF = 10  APF = 4
Industrial uses of wet suspensions of hydraulic building and construction materials (indoor, outdoor)	2, 5, 8b, 9, 10, 13		not required	---
	7		A) FFP1 or B) not required	APF = 4  ---
Professional use of dry hydraulic building and construction material (indoor, outdoor)	2		FFP1	APF = 4
	9, 26		A) FFP2 or B) FFP1	APF = 10  APF = 4
	5, 8a, 8b		A) FFP3 or B) FFP1	APF = 30  APF = 4
	19		FFP2	APF = 10
Professional uses of wet suspensions of hydraulic building and construction materials (indoor, outdoor)	11		A) FFP1 or B) not required	APF = 4  ---

**8.2.2.4 Thermal hazards**

Not relevant.

**8.2.3 Environmental exposure controls**

See Section 6.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	powder
Colour:	white
Odour:	odourless
Odour threshold:	no data available
pH (as supplied) (20°C):	not determinable
pH (of an aqueous solution) (23°C):	11 – 13
Melting point/freezing point (°C):	not determined
Boiling point and boiling range (°C):	not relevant
Flash point (°C), closed cup:	not relevant
Evaporation rate:	not relevant
Flammability (solid, gas):	not relevant
Upper flammability or explosive limit:	not relevant
Lower flammability or explosive limit:	not relevant
Vapour pressure (20°C) (mbar):	not relevant
Vapour density (20°C):	not relevant
Bulk density (g/cm <sup>3</sup> ):	1.15 – 1.25
Solubility in water (at 20°C):	1650 mg/l (calcium hydroxide)
Soluble in:	not relevant
Partition coefficient: n-octanol/water:	not relevant
Auto-ignition temperature (°C):	not relevant
Decomposition temperature (°C):	580 (decomposition of calcium hydroxide)
Viscosity:	not relevant
Explosive properties:	not explosive
Oxidising properties:	not relevant

### 9.2 Other information

None.

## 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 of limestone flour with acids, with violent evolution of heat and liberation of carbon dioxide. Increase in pressure and risk of bursting in closed containers.

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 Materials to avoid

Calcium hydroxide contained in this product reacts with acids under the formation of calcium salts.

Reaction of limestone flour with acids, with violent evolution of heat and liberation of carbon dioxide.

Increase in pressure and risk of bursting in closed containers.

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.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Toxicokinetics, metabolism and distribution

No data are available for the product.

#### 11.1.2 Acute effects (acute toxicity, irritation and corrosivity)

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.	
Irritant effect on skin		No data available.	
Irritant effect on eyes (rabbit)		Severe eye irritation	(Standard Draize test) (calcium hydroxide) (RTECS)

#### 11.1.3 Sensitisation

See point 11.1.9.

#### 11.1.4 Repeated dose toxicity

No data available.

#### 11.1.5 CMR effects (carcinogenicity, mutagenicity, toxicity for the reproduction)

Carcinogenicity	No data available.
Mutagenicity	No data available.
Toxicity for the reproduction	No data available.

#### 11.1.6 Comprehensive evaluation of the CMR properties of substances subject to registration

No data available.

#### 11.1.7 Information on likely routes of exposure

Inhalation: Possible irritant effect on the respiratory tract.

Skin/eye contact: Irritating to skin. Risk of serious damage to eyes.

#### 11.1.8 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.

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

The product contains cement low in chromate with a content of soluble chromium less than 2 ppm related to the cement portion. There is only a very little risk to fall ill with bricklayer's itch. Yet a sensitisation by skin contact cannot be ruled out for persons who are very sensitive.

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. Quartz is known to be a silicosis-producing substance to human.

#### 11.1.10 Interactive effects

No information on interactive effects available for the product.

#### 11.1.11 General remarks

The product has not been tested.

The toxicological data mentioned are derived from an analogous product.

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Telephone:	+49-(0)2374-50360	Revision date:	29.06.2015

## 12. Ecological information

### 12.1 Toxicity

**Aquatic toxicity:**

96 h LC50	(fish)	160 mg/l	(Gambusia affinis; Western Mosquitofish) (calcium hydroxide) (IUCLID)
48 h EC50	(daphnia)	No data available.	
72 h IC50	(algae)	No data available.	

**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

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

This mixture does not contain any substances classified as PBT/vPvB.

### 12.6 Other adverse effects

Ozone depletion potential	Not relevant
Photochemical ozone creation potential	Not relevant
Global warming potential	Not relevant
AOX-hint	Not to apply

### 12.7 Further information

Chemical oxygen demand (COD)	Not relevant
Biochemical oxygen demand (BOD5)	Not relevant

The product is classified as low hazardous to water. 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.

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## 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

H 4: Irritant

### 13.1.1 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

### 13.1.2 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

## 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 73/78 and the IBC Code

Not relevant.

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## 15. Regulatory information

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

#### 15.1.1 Information regarding relevant Community 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.

#### 15.1.2 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 Regulation: 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: WGK 1 – low hazardous to water  
 (calculation according to KBwS)<sup>3</sup>  
 The Federal State Enactment for Facilities to Handle Water Endangering Substances (German VAWS–Anlagen-Verordnung) has to be observed.

German Ordinance on Hazardous Substances  
 (in accordance with EC-Directive 98/24/EC): Articles 6, 7, 8, 9, 14, Annex I No 2 must be observed.

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 Substances<sup>1</sup>: TRGS 400, 401, 402, 500, 510, 555, 559, 600, 900  
 Rules of the employers' liability insurance association<sup>2</sup>: DGUV Regel 112-189, 112-190, 112-192, 112-195  
 Informations of the employers' liability insurance association<sup>2</sup>: 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, 2012<sup>7</sup>: inhalation: hazard group B  
 skin contact: hazard group HB  
 (in case of release of mineral dust, the protective measures in accordance with TRGS 559<sup>1</sup> 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).

Number of the product in the Poison Information Database: 2065812

### 15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:  
 calcium hydroxide

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## 16. Other information

- 16.1 Keeping (restrictions)** Article 8 paragraphs 5 and 6 of the German Ordinance on Hazardous Substances has to be observed. (only for Germany) to industry consumer, for the general public
- Supply**
- 16.2 Full text of the hazard statements referred to under subsection 2.1 and point 3.2.2 of the Safety Data Sheet**
- |      |                                   |
|------|-----------------------------------|
| H315 | Causes skin irritation.           |
| H318 | Causes serious eye damage.        |
| H335 | May cause respiratory irritation. |
- 16.3 Assignment of use descriptors according to Regulation (EC) No 1907/2006**  
The following process categories (PROC) are taken from the Guidance on information requirements and chemical safety assessment, Chapter R.12: Use descriptor system.  
ECHA reference number: ECHA-2010-G-05.
- |         |  |
|---------|--|
| PROC2:  | Use in closed, continuous process with occasional controlled exposure  |
| PROC3:  | Use in closed batch process (synthesis or formulation)   |
| PROC5:  | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC7:  | Industrial spraying  |
| PROC8a: | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities   |
| PROC8b: | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities       |
| PROC9:  | Transfer of substance or preparation (charging/discharging) into small containers (dedicated filling, including weighing)  |
| PROC10: | Roller application or brushing   |
| PROC11: | Non industrial spraying  |
| PROC13: | Treatment of articles by dipping and pouring   |
| PROC19: | Hand-mixing with intimate contact and only PPE available   |
| PROC22: | Potentially closed processing operations with minerals/metals at elevated temperature – Industrial setting                 |
| PROC26: | Handling of solid inorganic substances at ambient temperature  |
- 16.4 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   |
| 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   |
| KBwS:      | Commission for the Evaluation of substances hazardous to waters (Kommission Bewertung wassergefährdende Stoffe)   |
| LGK:       | Lagerklasse (storage class)   |
| NEPSI:     | Noyau Européen pour la Silice – European Network for Silica   |
| 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  |

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### 16.5 Literature references and sources for data

- <sup>1</sup> <http://www.baua.de>
- <sup>2</sup> <http://www.arbeitssicherheit.de>
- <sup>3</sup> <http://www.umweltbundesamt.de>
- <sup>4</sup> <http://www.nepsi.eu>
- <sup>5</sup> <http://www.wingis-online.de>
- <sup>6</sup> <http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php>
- <sup>7</sup> <http://www.baua.de/emkg>

### 16.6 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.

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

Revised sections: 1.2, 2.1.1 (now 2.1), 2.1.2 (deleted), 2.2, 3.2.2, 3.2.3 (deleted), 3.2.4 (now 3.2.3), 8.1, 8.2.1, 8.2.2.3, 11.1.11, 15.1.1, 15.1.2, 16.2, 16.3 (new), 16.4 (deleted), 16.5 (now 16.4), 16.6 (now 16.5), 16.7 (now 16.6), 16.8 (now 16.7)

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.