

# Safety data sheet

according to Directive (EC) no. 1907/2006 (REACH) and  
Directive (EU) no. 830/2015



Commercial name:

Created on: 01.01.2013 Modified on: 08.08.2022  
Version: 2.1 Version being replaced: 1.1  
Number of pages: 18

## 1. Designation of the substance or mixture and the company

### 1.1 Product identifier

Trade name: Fire protection duct mortar  
Item number: 7215500  
Type: BSK-M

### 1.2 Relevant identified uses of the substance or mixture and uses we would not recommend

#### Identified use

Mounting material

#### Uses we would not recommend

No information available.

### 1.3 Details on the supplier providing the safety data sheet

#### Manufacturer/supplier

OBO Bettermann Holding GmbH & Co. KG  
Hüingser Ring 52  
58710 Menden  
Germany

#### Division providing information

Customer Service Germany  
Tel.: +49 (0)2373 89-1700  
E-mail: info@obo.de

### 1.4 Emergency telephone number

REACH Registration of Chemicals GmbH  
Tel.: +49 (0)700 2411 2112 (OBO) (24 hr advice in German and English)

## 2. Possible risks

### 2.1 Categorisation of substance or mixture

#### EC Directive 1272/2008 (CLP)

Hazard class	Hazard category	Hazard information
STOT SE	3	H335 May cause respiratory irritation.
Skin Irrit.	2	H315 Causes skin irritation.
Eye Dam.	1	H318 Causes serious eye damage.

## 2.2 Labelling elements

### EC Directive 1272/2008 (CLP)

#### Hazard pictograms



GHS 02 GHS 07

Hazard

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

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Remove any contact lenses where possible. Continue rinsing. P310 Immediately call a POISON CENTRE or doctor/physician.

P405 Store locked up.

P501 Dispose of contents/container to an approved disposal facility.

Cement, Portland, chemicals

Chimney dust, Portland cement

## 2.3 Other risks

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) and is not subject to Appendix XIII of the ordinance (EC) 1907/2006 (&lt; 0.1%).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) and is not subject to Appendix XIII of the ordinance (EC) 1907/2006 (&lt; 0.1%).

When in contact with water:

Observe the pH value.

Low chromate

This product contains component parts, which prevent the stoppage of sensitisation.

## 3. Composition/details of component parts

### 3.1 Substances

N/A

### 3.2 Mixtures

<b>Cement, Portland, chemicals</b>	
Registration no. (REACH)	---
Index	---
EINECS, ELINCS, NLP	266-043-4
CAS	65997-15-1
% range	40–70
Categorisation according to the ordinance (EU) no. 1272/2008 (CLP)	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Skin Sens. 1, H317
<b>Chimney dust, Portland cement</b>	
Registration no. (REACH)	01-2119486767-17-XXXX
Index	---

EINECS, ELINCS, NLP	270-659-9
CAS	68475-76-3
% range	0.1–<2.5
Categorisation according to the ordinance (EU) no. 1272/2008 (CLP)	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335

For text for the H statements and classification abbreviations (GHS/CLP), see Section 16.

The substances names in this section are named with their actual appropriate classification!

This means that, for substances listed in Appendix VI Table 3.1 of the ordinance (EC) no. 1272/2008 (CLP ordinance), any comments named there were taken into account for the classification named here.

## 4. First aid measures

### 4.1 Description of the first aid measures

First-aiders should observe their own protection.

Never allow anything to pass into the mouth of an unconscious person!

#### Inhalation

Remove person from the danger area.

Give the person fresh air and consult a doctor according to the symptoms.

#### Skin contact

Wash thoroughly with plenty of water and soap, remove saturated, soiled items of clothing immediately, consult a doctor in cases of skin irritation (redness, etc.).

#### Eye contact

Do not rub.

Remove contact lenses.

Rinse thoroughly for several minutes with copious amounts of water, contact a doctor immediately, keep the data sheet in readiness.

Protect the uninjured eye.

Have an ophthalmist carry out a check.

#### Ingestion

Rinse out the mouth with copious amounts of water.

Avoid vomiting, provide plenty of water to drink, seek medical assistance immediately.

### 4.2 Most important acute and delayed symptoms and effects

If appropriate, symptoms and effects that appear after a delay can be found in Section 11 with additional information in Section 4.1.

In certain cases, it may occur that the poisoning symptoms will only occur after a long period of time/ several hours.

The following may occur:

Cornea damage.

Reaction with skin moisture.

Dermatitis (skin inflammation)

Irritation of the skin

In case of dust build-up:

Coughing

Irritation of the mucous membranes of the nose and throat

Irritation of the airways.

### 4.3 Information for immediate medical aid or special treatment

Symptomatic treatment.

Decontamination

First aid

## 5. Fire protection measures

---

### 5.1 Extinguishing media

#### Suitable extinguishing media

Product is non-combustible.

Match to surrounding fire.

#### Unsuitable extinguishing agents for safety reasons

None known

### 5.2 Special hazards arising from the substance or mixture

During a fire, the following may form:

Carbon monoxides

Calcium oxide

Toxic gases

### 5.3 Advice for firefighters

Do not inhale explosion and combustion gases.

Breathing protection device working independently of the ambient air.

Dispose of contaminated extinguishing water according to the official regulations.

Extinguishing water has an alkaline reaction.

## 6. Measures in the case of unintentional release

---

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

Avoid dust build-ups.

Ensure sufficient ventilation.

Avoid eye and skin contact, as well as inhalation.

### 6.2 Environmental protection measures

If larger quantities escape, aim to contain.

If possible without risk, close leaks.

Avoid penetration into the surface and ground water and into the ground.

Do not let it enter the sewerage system.

### 6.3 Methods and material for retention and cleaning

Collect mechanically and dispose of in accordance with Section 13.

### 6.4 Reference to other sections

See Section 13 and, for personal protective equipment, see Section 8.

## 7. Handling and storage

---

Sections 8 and 6.1 also contain relevant details in addition to those contained in this section.

### 7.1 Protective measures for safe handling

#### 7.1.1 General recommendations

Avoid dust build-ups.

Do not inhale dust.

Avoid eye and skin contact.

Eating, drinking, smoking and the storage of foodstuffs prohibited in work area.

Observe the information on the label and the instructions for use.

Apply the working methods according to the operating instructions.

#### 7.1.2 Information on general hygiene measures in the workplace

The general hygiene measures for handling chemicals should be used.

Wash your hands before breaks and after completing work.

Keep away from food, drinks and feed.

Before entering areas where food is consumed, remove contaminated clothing and protective equipment.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a place inaccessible to unauthorised persons.

Only store the product closed in original packaging.

Do not store the product in passageways and stairwells.

Protect against moisture.

## 7.3 Specific end applications

No information currently available.

## 8. Limitation and monitoring of the exposure/personal protective equipment

### 8.1 Parameters to be monitored

<b>(A)</b> Chem. designation	<b>Cement, Portland, chemicals</b>	<b>% range: 40–70</b>
MWC daily avg./TGC daily avg.: 5 mg/m <sup>3</sup> E (dust)	MWC stv/TGC stv: ----	MWC current val.: ---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>(CH)</b> Chem. designation	<b>Cement, Portland, chemicals</b>	<b>% range: 40–70</b>
MWC/VME : 5 mg/m <sup>3</sup> e	CLV/VLE: ----	---
Monitoring methods:	---	---
BAT/VBT:	Other: S	

<b>(A)</b> Chem. designation	<b>Chimney dust, Portland cement</b>	<b>% range: 0.1–&lt;2.5</b>
MWC daily avg./TGC daily avg.: 5 mg/m <sup>3</sup> E (dust)	MWC stv/TGC stv: ----	MWC current val.: ---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>(CH)</b> Chem. designation	<b>Chimney dust, Portland cement</b>	<b>% range: 0.1–&lt;2.5</b>
MWC/VME : 5 mg/m <sup>3</sup> e	CLV/VLE: ----	---
Monitoring methods:	---	---
BAT/VBT:	Other: S	

<b>(A)</b> Chem. designation	<b>Vermiculite</b>	<b>% range:</b>
MWC daily avg./TGC daily avg.: 5 mg/m <sup>3</sup> E (light dust)	MWC stv/TGC stv: 10 mg/m <sup>3</sup> ( 2 x 30 min. (Miw)) (light dust)	MWC current val.: ---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>(D)</b> Chem. designation	<b>Vapours, silicon dioxide</b>	<b>% range:</b>
WLV: 0.3 mg/m <sup>3</sup> A (silica dust) (WLV)	Spb,-Üf.: ---	---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>A</b> Chem. designation	Vapours. Silicon dioxide	% range:
MWC daily avg./TGC daily avg.: 0.3 mg/m <sup>3</sup> A (silica dust) (MWC daily avg.)	MWC stv/TGC stv: ----	MWC current val.: ---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>CH</b> Chem. designation	Vapours, silicon dioxide	% range:
MWC/VME: 0.3 mg/m <sup>3</sup> a (silica dust)	CLV/VLE: ----	---
Monitoring methods:	---	---
BAT/VBT: ----	Other: ---	

<b>D</b> Chem. designation	General dust limit value	% range:
GLV: 1.25 mg/m <sup>3</sup> A, 10 mg/m <sup>3</sup> E (2.4 TRGS 900)	PL EF.: 2(II)	---
Monitoring methods:	---	---
BLV: ----	Other data: AGS, DFG	

<b>A</b> Chem. designation	General dust limit value	% range:
MWC daily avg./TGC daily avg.: 5 mg/m <sup>3</sup> (alveolar fraction), 10 mg/m <sup>3</sup> (inhalable fraction)	MWC stv/TGC stv: 10 mg/m <sup>3</sup> (alveolar fraction), 20 mg/m <sup>3</sup> (inhalable fraction) (60 min(Miw),2x)	MWC current val.: ---
Monitoring methods:	---	---
BLV: ----	Other data: ---	

<b>CH</b> Chem. designation	General dust limit value	% range:
MWC/VME : 3 mg/m <sup>3</sup> a, 10 mg/m <sup>3</sup> e	CLV/VLE: ----	---
Monitoring methods:	---	---
BAT/VBT: ----	Other: ---	

**D** WLV = Workplace limit value. I = Inhalable fraction, A = Alveolar fraction.

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (9) = Alveolar fraction (Directive 2017/164/EU, Directive 2004/37/EC). (11) = Inhalable fraction (Directive 2004/37/EC). (12) = Inhalable fraction. Alveolar fraction in the member states, which, on the day this directive takes effect, implement a biomonitoring system with a maximum biological limit value of 0.002 mg Cd/g of creatinine in urine (Directive 2004/37/EC). PL – EF = Peak limitation – exceeding factor (1 to 8) and Category (I, II) for short-time values. "==" = Momentary value. Category (I) = Substances for which the local action determines the limit value or substances sensitising the airways, (II) = Substances with resorption action.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Alveolar fraction (2017/164/EU, 2017/2398/EU). (10) = Limit value for short-time exposure for a reference period of one minute (2017/164/EU). | BLV = Biological limit value. Sampling time: a) No restriction, b) End of exposure or shift, c) For long-time exposure: At the shift end after multiple previous shifts, d) Before the following shift, e) After the end of exposure: Hours, f) After at least 3 months of exposure, g) Immediately after exposure, h) Before the last shift of the working week.

Other data: WGV = Workplace guide value. H = Skin-resorptive. X = Carcinogenic substance of Cat. 1A or 1B or carcinogenic activity or procedure according to § 2 Paragraph 3 No. 4 of the Hazardous Substances Ordinance – in addition, of the § 10 GefStoffV should be observed. Y = If WLV or BLV are complied with, a risk of fertility damage need not be feared. Z = Even if WLV or BLV are complied with, there is still a risk of fertility damage (see No. 2.7 TRGS 900). Sa = Sensitising to airways. Sh = Sensitising to skin. Sah = Sensitising to airways and skin. DFG = Deutsche Forschungsgemeinschaft (MAK-Kommission). AGS = Committee for Hazardous Substances. (10) = The workplace limit value relates to the element content of the appropriate metal. (11) = Sum of vapour and aerosols. \*\* = The limit value for this substance was lifted by TRGS 900 (Germany) of January 2006 with the aim of revising it.

TRGS 905 – Directory of carcinogenic or reproduction-toxic substances (in Appendix VI Part 3 of the CLP – VO Reproduction-toxic – Harmful to fertility, RE = Reproduction-toxic – harmful to development (can damage the child in the womb), 1A/1B/2 = Categories according to Appendix I of the CLP ordinance. (13) = The substance can lead to sensitisation of the skin and airways (Directive 2004/37/EC), (14) = The substance can lead to a sensitisation of the skin (Directive 2004/37/EC).

**(A)** MWC daily avg./TGC daily avg. = Maximum workplace concentration – daily average / Technical guide concentration – daily average value, A = Alveolar fraction, I = Inhalable fraction, TE = Toxicity equivalence factors (TE) according to NATO/CCMS 1988.

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (9) = Alveolar fraction (Directive 2017/164/EU, Directive 2004/37/EC). (11) = Inhalable fraction (Directive 2004/37/EC). (12) = Inhalable fraction. Alveolar fraction in the member states, which, on the day this directive takes effect, implement a biomonitoring system with a maximum biological limit value of 0.002 mg Cd/g of creatinine in urine (Directive 2004/37/EC).

MWC stv/TGC stv = Maximum workplace concentration – short-time value / Technical guide concentration – short-time value, A = Alveolar fraction, I = Inhalable fraction, Miw = Mean value over the evaluation period, TE = Toxicity equivalent factors (TE) according to NATO/CCMS 1988.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Alveolar fraction (2017/164/EU, 2017/2398/EU). (10) = Limit value for short-time exposure for a reference period of one minute (2017/164/EU).

MWC-MoV = Maximum workplace concentration – Momentary value

BLV = Biological limit value. VGÜ = Ordinance of the Federal Minister for Work and Social Issues on Health Monitoring in the Workplace

Other data: H = Particular risk of skin resorption, S = Substance triggers overaverage levels of allerg. reactions, Sa/Sh/Sah = Risk of sensitisation of the airways/of the skin/of the airways + skin, SP = Risk of photosensitisation, A1/A2 = Substances clearly marked as carcinogenic, B = Substances with reasonable suspicion of carcinogenic potential, C = Carcinogenic substance groups and substance mixtures, F = Can impair fertility, f = Can possibly impair fertility, D = Can damage the child in the womb, d = Can possibly damage the child in the womb, L = Can damage babies via milk. (13) = The substance can lead to sensitisation of the skin and airways (Directive 2004/37/EC), (14) = The substance can lead to a sensitisation of the skin (Directive 2004/37/EC).

**(CH)** MWC/VME = Maximum workplace concentration value. e = Inhalable dust, a = Alveolar dust  
STLV = Short-term limit value. e = Inhalable dust, a = Dust entering the alveolus, # = Average STLV may not be exceeded for more than 15 minutes.

BSTV = Biological substance tolerance value: Investigated material: B = Blood, E = Erythrozytene, U = Urine, A = Alveolar air, P/Se = Plasma/Serum. Sampling time: a = No limitation, b = End of exposure or shift, c = During long-term exposure – after several previous shifts, d = Before next shift. Substrat déxamen: B = Sang complet, E = Erythrocytes, U = Urine, A = Air alveolaire, P/Se = Plasma/serum. Moment du prelevement: a = indifferent, b = fin de l'exposition, de la periode de travail, c = exposition de longue duree - apres plusieurs periodes de travail, d = avant la reprise du travail.

Other/Divers: H = Skin resorption possible. S = Sensitising agent. B = Biological Monitoring. OL = Noise-amplifying ototoxicity. P = Provisional. C1A, C1B, C2 = Cancerogen Cat. 1A, 1B, 2/cancerigene Cat. 1A, 1B, 2. M1A, M1B, M2 = Mutagene Cat. 1A, 1B, 2/mutagene Cat. 1A, 1B, 2. R1AF, R1BF, R2F/R1AD, R1BD, R2D = Reproduction tox. Cat. 1A, 1B, 2 (F= Fertility, D = Development) SS-A, SS-B, SS-C, = Pregnancy group A, B, C.

## 8.2 Limitation and monitoring of the exposure

The professional use of this product (this product/this preparation) by pregnant or nursing women is limited or forbidden completely (Switzerland).

Section 15 lists the corresponding legal basis and exact conditions.

The professional use of this product (this product/this preparation) by young people is limited or forbidden completely. Section 15 lists the corresponding legal basis and exact conditions (Switzerland).

### **8.2.1 Suitable technical control facilities**

Ensure good ventilation. This can be achieved through local extraction or general waste air. If this is insufficient to keep the concentration below the workplace limit values (WLV), suitable breathing protection should be worn.

Applies only when exposure limit values are listed here.

Suitable evaluation methods to monitor the effectiveness of the protective measures taken comprise methods including and excluding measurement.

Such methods are described, for example, by EN 14042, TRGS 402 (Germany).

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents."

TRGS 402 "Ermitteln und Beurteilen der Gefährdungen bei Tätigkeiten mit Gefahrstoffen – Inhalative Exposition".

### **8.2.2 Individual protective measures, for example personal protective equipment**

The general hygiene measures for handling chemicals should be used.

Wash your hands before breaks and after completing work.

Keep away from food, drinks and feed.

Before entering areas where food is consumed, remove contaminated clothing and protective equipment.

#### **Eye/face protection:**

Protective goggles, tight-fitting with side panels (EN 166)

#### **Hand protection/skin protection:**

Protective gloves with chemical resistance (EN 374).

Recommended.

Cotton gloves soaked in nitrile fluid with CE symbol (EN 374).

Minimum layer thickness in mm:

0.15

Permeation time in minutes:

>= 480

Hand protection cream recommended.

Unsuitable material:

Leather gloves

#### **Skin protection – Other protection measures:**

Protective work clothing (e.g. safety shoes EN ISO 20345, long-sleeved work clothing).

#### **Breathing protection:**

Not usually required.

When workplace limit value is exceeded (AGW, Germany) or MAK (Switzerland, Austria).

Filter P1 (EN 143), white colour coding

Observe the wearing time limitations for breathing protection devices.

#### **Thermal risks:**

N/A

#### **Additional information on hand protection – No tests were carried out**

For mixtures, the selection was made according to the best knowledge and information on the contents.

For substances, the selection was derived from the data of the glove manufacturers.

The final selection of the glove material must take place according to the penetration times, permeation rates and degradation.

The selection of a suitable glove is not only dependent on the material, but on other quality characteristics, and differs from manufacturer to manufacturer.

With mixtures, the resistance of glove materials cannot be calculated in advance and must be checked before use.

The exact permeation time of the glove material should be obtained from the protective glove manufacturer and complied with.



**8.2.3 Limitation and monitoring of the environmental exposure**

No information currently available.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Aggregate state:	Solid, powder
Colour:	Grey
Odour:	Odourless
Odour threshold:	Not determined
pH value:	~12 (100 g/l)
Melting point/freezing point:	Not determined
Boiling point/range:	Not determined
Ignition point:	N/A
Evaporation speed:	N/A
Flammability (solid, gaseous):	n.a
Upper explosion limit:	Not determined
Lower explosion limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air=1)	Not determined
Density:	Not determined
Pouring density:	1,200 kg/m <sup>3</sup>
Solubility:	Not determined
Distribution coefficient (n-Octanol/water):	Not determined
Solubility in water:	<3 g/l
Self-ignition temperature:	N/A
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Product is not at risk of explosion
Oxidising properties:	No

**9.2 Other data**

Mixability:	Not determined
Lipsolubility/solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvent content:	0%

**10. Stability and reactivity****10.1 Reactivity**

The product was not tested.

**10.2 Chemical stability**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

Protect against moisture.

**10.5 Incompatible materials**

Avoid contact with strong acids.

**10.6 Hazardous decomposition products**

No decomposition if used correctly.

**11. Toxicological data****11.1 Data on toxicological effects**

For any further information on health impacts, see Section 2.1 (classification).

<b>BSK-M fire protection duct mortar</b>						
<b>UFI: 3PHK-7MF7-V09E-JTYT</b>						
<b>Toxicity/action</b>	<b>End point</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Testing method</b>	<b>Note</b>
Acute toxicity, oral						No data available
Acute toxicity, dermal						No data available
Acute toxicity, inhalative:						No data available
Corrosive/irritating to the skin						No data available
Serious eye damage/irritation						No data available
Sensitisation of the airways/skin						Low-chromate, this product contains component parts which prevent the triggering of sensitisation.
Gamete mutagenicity						No data available
Carcinogenicity						No data available
Reproductive toxicity						No data available
Specific target organ toxicity – single exposure (STOT-SE)						No data available
Specific target organ toxicity – repeated exposure (STOT-RE)						No data available
Aspiration risk						No data available
Symptoms						No data available

<b>Cement, Portland, chemicals</b>						
<b>Toxicity/action</b>	<b>End point</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Testing method</b>	<b>Note</b>
Acute toxicity, oral	LD50	> 2,000	mg/kg			
Acute toxicity, dermal	LD50	> 2,000	mg/kg	Rabbit		24 h, LIMIT test
Acute toxicity, inhalative:	LC50	5	g/m3	Rabbit		LIMIT test
Corrosive/irritating to the skin						Irritant
Serious eye damage/irritation						Risk of serious eye damage
Sensitisation of the airways/skin						Sensitising (skin contact)
Gamete mutagenicity						No indications of such an impact.
Symptoms						Irritation of mucous membranes
Specific target organ toxicity – single exposure (STOT-SE), inhalative						Irritation of the airways

<b>Chimney dust, Portland cement</b>						
<b>Toxicity/action</b>	<b>End point</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Testing method</b>	<b>Note</b>
Corrosive/irritating to the skin						Irritant
Serious eye damage/irritation						Strong irritant
Sensitisation of the airways/skin						Sensitising (skin contact)
Specific target organ toxicity – single exposure (STOT-SE), inhalative						Irritation of the airways

<b>Vermiculite</b>						
<b>Toxicity/action</b>	<b>End point</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Testing method</b>	<b>Note</b>
Corrosive/irritating to the skin						Irritant
Serious eye damage/irritation						Mechanical irritation possible.
Symptoms						Itching

<b>Vapours, silicon dioxide</b>						
<b>Toxicity/action</b>	<b>End point</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Testing method</b>	<b>Note</b>
Acute toxicity, oral	LC50	> 5,000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogical conclusion
Acute toxicity, dermal	LD50	> 5,000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogical conclusion
Corrosive/irritating to the skin				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritating, analogical conclusion
Serious eye damage/irritation				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritating, mechanical irritation possible, analogical conclusion
Sensitisation of the airways/skin						Not sensitising, analogical conclusion
Gamete mutagenicity	NOAEL	5,000	mg/kg	Rat	OECD 478 (Genetic Toxicology – Rodent dominant Lethal test),	Analogical conclusion
Gamete mutagenicity				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Aspiration risk						Negative

## 12. Environmental data

<b>BSK-M fire protection duct mortar</b>							
<b>UFI: 3PHK-7MF7-V09E-JTYT</b>							
Toxicity/action	End point	Time	Value	Unit	Organism	Testing method	Note
12.1 Toxicity, fish							No data available
12.1 Toxicity, daphnia:							No data available
12.1 Toxicity, algae							No data available
12.2 Persistence and biodegradability							No data available
12.3 Bioaccumulation potential							No data available
12.4 Mobility in the ground							No data available
12.5 Results of the PBT and vPvB evaluation							No data available
12.6 Other harmful impacts							No data available

<b>Vapours, silicon dioxide</b>							
Toxicity/action	End point	Time	Value	Unit	Organism	Testing method	Note
12.1 Toxicity, fish	LC50	96 h	>100	mg/l	Brachydanio rerio	OECD 203 (fish, Acute Toxicity Test)	Analogical conclusion
12.2 Persistence and biodegradability							N/A for anorganic substances
12.1 Toxicity, daphnia	EC50	24 h	> 1,003	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation)	Analogical conclusion
12.1 Toxicity, algae	EC50	72 h	4,200	mg/l	Skeletonema costatum	ISO 10253	Analogical conclusion

## 13. Disposal information

### 13.1 Waste treatment method

#### For the substance/mixture/residual quantities

#### EC waste code no:

The named waste codes are recommendations, based on the expected use of this product. Due to the special use and disposal conditions at the user's premises, other waste conditions may be assigned. (2014/995/EU)

10 13 11 Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

Recommendation:

Do not dispose of in waste water.

Observe local regulations.

Let the product harden.

For example, store it on a suitable dump.

Observe the most recent version of the ordinance on the avoidance and disposal of waste (Waste Ordinance, VVEA, SR 814.600, Switzerland).

Observe the most recent version of the ordinance on the handling of waste (VeVA, SR 814.600, Switzerland).

Observe the most recent version of the ordinance UEVK about lists on the handling of waste (LVA, SR 814.610.1, Switzerland).

#### **For soiled packaging material**

Observe local regulations.

Suitable combustion plant.

15 01 01 Paper and cardboard packaging

Observe the most recent version of the ordinance on the avoidance and disposal of waste (Waste Ordinance, VVEA, SR 814.600, Switzerland).

Observe the most recent version of the ordinance on the handling of waste (VeVA, SR 814.600, Switzerland).

Observe the most recent version of the ordinance UEVK about lists on the handling of waste (LVA, SR 814.610.1, Switzerland).

## **14. Transport information.**

---

### **14.1 General data**

14.1 UN number: N/A

#### **Road/rail transport (GGVSEB/ADR/RID)**

14.2 Correct UN shipping designation:

14.3 Transport danger classes: N/A

14.4 Packaging group: N/A

Classification code: N/A , LQ: n.a

14.5 Environmental risks: N/A

Tunnel restriction code:

#### **Transport with seagoing ships (GGVSee/IMDG-Code)**

Correct UN shipping designation:

Transport danger classes: N/A

Packaging group: N/A

Marine Pollutant: N/A

Environmental risks: N/A

#### **Transport by aircraft (IATA)**

Correct UN shipping designation:

Transport danger classes: N/A

Packaging group: N/A

Environmental risks: N/A

### **14.6 Special precautionary measures for the user**

If not otherwise specified, the general measures for performing a safe transport are to be observed.

### **14.7 Mass good transportation according to Appendix II of the MARPOL agreement and according to the IBC code**

Not a hazardous good according to the ordinances listed above.

## 15. Legal specification

### 15.1 Specifications regarding safety, health and environmental protection/specific legal specifications for the substance or the mixture

Observe restrictions:

Ordinance (EC) no. 1907/2006, Appendix XVII

Cement, Portland, chemicals

Chimney dust, Portland cement

Observe the regulations of occupational insurance companies/workplace medicine.

Directive 2010/75/EU (VOC): 0%

Water hazard class (Germany): 1

Technical instructions for maintaining air purity – TA Luft:

Chapter 5.2.1 – Overall dust, including fine dust (anorganic and organic substances, general, not assigned to any company): 75.00–100.000%

Observe the Young Persons Employment Act – JArbSchG (Germany).

Storage class according to TRGS 510:

13 Nicht brennbare Feststoffe, die keiner der vorgenannten Lagerklassen zuzuordnen sind (Non-combustible solid matter, which cannot be assigned to any of the above-named storage classes)

VbF (Austria): N/A

VOC-CH: 0 kg/1 l

Observe the employment prohibitions and limitations for young people (KJBG-VO) (Austria).

Pregnant women and mothers nursing children may not come into contact with this product (this substance/this preparation) during their work. If, on account of a risk evaluation, it is clear that there is no concrete health damage to mothers and children or that this can be excluded using suitable protection measures, then they may work with this product (this substance/this preparation) (Art. 63, ArGV 1, SR 822.111).

Young people undergoing basic occupational training may only work with this product (this substance/this preparation) if this is intended in the appropriate educational plan to achieve the aims of their training, it fulfils the preconditions of the educational plan and the appropriate age restrictions are complied with. Young people not undergoing basic occupational training may not work with this product (this substance/this preparation).

Young people with a Swiss federal vocational certificate (EBA) or a Swiss Federal VET Diploma (EFZ) may carry out hazardous work with this product (this substance/this preparation) in the course of their learned profession. Young people are considered to be employees of either gender who have not completed their 18th year. (Switzerland).

MWC:

See Section 8.

Observe the Chemicals Directive, ChemV (SR 813.11, Switzerland).

Observe the Chemical Risk Reduction Directive, ChemRRV (SR 814.81, Switzerland).

Observe the Air Purity Ordinance, LRV (SR 814.318.142.1, Switzerland).

Observe the Major Accidents Ordinance (Störfallverordnung, StFV) (SR 814.012, Switzerland).

### 15.2 Chemical safety assessment

A chemical safety assessment for mixtures is not intended.

## 16. Other data

Revised sections: 1, 3, 8, 11, 12, 15

This data refers to the product in the as-delivered state.

Instruction/training of the employees for handling hazardous substances required.

**Classification and used method used to derive the classification of the mixture according to the**

**ordinance (EC) 1272/2008 (CLP):**

<b>Categorisation according to the ordinance (EU) no. 1272/2008 (CLP)</b>	<b>Evaluation method used</b>
STOT SE 3, H335	Classification according to calculation method
Skin Irrit. 2, H315	Classification according to calculation method
Eye Dam. 1, H318	Classification according to the pH value

The following statements represent the prescribed H statements, risk class code (GHS/CLP) of the ingredients (named in Sections 2 and 3).

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

STOT SE – Specific target organ toxicity – single exposure – Airway irritants

Skin Irrit. - Irritation to the skin

Eye Dam. - Serious eye damage

Skin Sens. – Sensitisation of the skin

**Abbreviations and acronyms:**

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement about the International Transport of Hazardous Goods by Road)

alkoholbest. alkoholbeständig

allg. Allgemein

Anm. Anmerkung

AOX Adsorbable organic halogen compounds

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAFU Bundesamt für Umwelt (Federal Ministry of the Environment) (Switzerland)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Agency for Material Research and Testing)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (Federal Agency for Workplace Protection and Medicine)

Bem. Bemerkung

BG Occupational Insurance Company

BG BAU Occupational Insurance Company for the Building Industry (Germany)

BSEF The International Bromine Council

bw body weight

bzw. beziehungsweise

ca. zirka/circa

CAS Chemical Abstracts Service

ChemRRV Chemical Risk Reduction Directive (Switzerland)

CLP Classification, Labelling and Packaging (Directive (EC) Nr. 1272/2008 on the classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproduction-toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

ECHA European Chemicals Agency

EC European Union

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Standards



EPA United States Environmental Protection Agency (United States of America)  
 etc., usw. et cetera  
 EU European Union  
 EVAL Ethylene vinyl alcohol copolymer  
 EEC European Economic Community  
 Fax. Fax number  
 gem. gemäß  
 ggf. gegebenenfalls  
 GGVSEB Hazardous Substances Ordinance for Road, Railways and Inland Waterways (Germany)  
 GGVSee Hazardous Substances Ordinance for Sea Transport (Ordinance on the transport of hazardous substances with seagoing ships, Germany)  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GISBAU Hazardous substance information system of BG Bau – Occupational Insurance Company for the Building Industry (Germany)  
 GisChem Hazardous substance information system for chemicals of BG RCI – Occupational Insurance Company for Raw Materials and the Chemicals Industry and BGHM – Occupational Insurance Company for the Wood and Metal Trades (Germany)  
 GWP Global warming potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-Code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 k.D.v. keine Daten vorhanden  
 KFZ, Kfz Kraftfahrzeug  
 Konz. Konzentration  
 LC50 Lethal Concentration to 50% of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LQ Limited quantities  
 LRV Air Purity Ordinance (Switzerland)  
 LVA Lists on the handling of waste (Switzerland)  
 MARPOL International Convention for the Prevention of Pollution from Ships  
 Min., min. Minute(s) or Minimum  
 n.a. nicht anwendbar  
 n.g. nicht geprüft  
 n.v. nicht verfügbar  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 Pt. Punkt  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Directive (EC) no. 1907/2006)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT:  
 resp. respektive  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=Regulation on the International Transport of Hazardous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TRGS Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)

UEVK Eidgenössisches Department für Umwelt, Verkehr, Energie und Kommunikation (Switzerland)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

UV Ultraviolet

VbF Ordinance on Flammable Liquids (Austrian ordinance)

VeVA Ordinance on the Handling of Waste (Switzerland)

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WBF Eidgenössisches Department für Wirtschaft, Bildung und Forschung (Switzerland)

WGK Ordinance on Plants to Handle Substances Posing a Risk to Water – AwSV (German Ordinance)

WGK1 Weakly hazardous to water

WGK2 Quite hazardous to water

WGK3 Very hazardous to water

wwt wet weight

z. Zt. zurzeit

z.B. zum Beispiel

The details given here should describe the product with regard to the necessary safety precautions. They are not intended to guarantee specific properties and are based on the current level of our knowledge.

Liability excluded.