

Safety data sheet

according to Directive (EC) no. 1907/2006 and Directive (EU)
no. 453/2010 (REACH)



Trading Name: Fire protection duct mortar

Created on: 15.06.2018

Changed on: 19.01.2021

Number of pages: 15

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

Product identifier

Trading name: Fire protection duct mortar

Article number: 7215500

Type: BSK-M

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

Relevant identified uses of the substance or mixture

Assembly material

Uses advised against

No information available at present

1.2 Manufacturer/supplier

OBO Bettermann Holding GmbH & Co. KG

P.O. Box 1120

58694 Menden

Germany

1.3 Division providing information

Customer Service

Tel.: +49 2373 89 - 1700

export@obo.de

1.4 Emergency telephone number

REACH Registration of Chemicals GmbH

Tel.: +49 (0)700 24112112 (OBO)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

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

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms



Signal word

Danger

H335-May cause respiratory irritation. H315-Causes skin irritation. H318-Causes serious eye damage. P261- Avoid breathing dust. P271-Use only outdoors or in a well ventilated area. P280-Wear protective gloves and eye protection/ face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. P310-Immediately call a POISON CENTER/doctor.

P405-Store locked up.

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

Portland, cement, chemicals

Flue dust, portland cement

2.2 Other hazards

The mixture does not contain any vPvB substances (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (<0,1%)

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (<0,1%)

This product contains components that hamper the initiation of sensitization.

In case of contact with water:

Note pH value

3. Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Portland, cement, chemicals	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NPL	266-043-4
CAS	65997-15-1
content %	40-70
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Skin Sens. 1, H317
Flue dust, portland cement	
Registration number (REACH)	01-2119486767-17-XXXX
Index	---

EINECS, ELINCS, NPL	270-659-9
CAS	68475-76-3
content %	0,1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Skin Sens. 1, H317

Fumes, silica	Substance for which an EU exposure limit value applies
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NPL	273-761-1
CAS	69012-64-2
content %	30-40
Classification according to Regulation (EC) 1272/2008 (CLP)	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

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

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

4. First aid measures

4.1 Description of first aid measure

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Do not rub.

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect injured eye. Follow-up examination by an ophthalmologist

Ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting- give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur:

Corneal damage.

Reaction with humidity of skin.

Dermatitis (skin inflammation)

Irritation of the skin.

On dust formation:
Coughing
Irritant to mucosa of the nose and throat
Irritation of the respiratory tract

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.
Decontamination
Elementary aid

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Product is not combustible.
Adapt to the nature and extent of fire.
Unsuitable extinguishing media: None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
Oxides of carbon
Calcium oxide
Toxic gases

5.3 Advice for Firefighters

In case of fire and/or explosion do not breath fumes.
Protective respirator with independent air supply.
Dispose of contaminated extinction water according to official regulations.
Extinction water produces an alkaline reaction.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid build up of dust.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

General recommendations

Avoid build up of dust.

Do not breathe dust.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

Notes and general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from humidity.

7.3 Specific end use(s)

No information available at present.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Chemical Name	Portland, cement, chemicals	Content % 40-70
WEL-TWA: 10 mg/m ³ (total inh. dust), 4mg/m ³	WEL-STEL: --- ---	
Monitoring procedures ---		
BMGV: ---	Other information: ---	

Chemical Name	Flue dust, portland cement	Content % 0,1-<2,5
WEL-TWA: 10 mg/m ³ (total inh. dust), 4mg/m ³	WEL-STEL: --- ---	
Monitoring procedures ---		
BMGV: ---	Other information: ---	

Chemical Name	general dust limit	Content %
WEL-TWA: 10 mg/m ³ (total inh. dust), 4mg/m ³	WEL-STEL: --- ---	
Monitoring procedures ---		
BMGV: ---	Other information: ---	

Chemical Name	Fumes, silica	Content %:30-40
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WEL-TWA: 0,1 mg/m ³ (9) (respirable crystalline silica dust) (WEL-TWA, EU)	WEL-STEL: --- ---	
Monitoring procedures ---		
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hours TWA (=time weighted average) reference period) EH40. AGW = „Arbeitsplatzgrenzwert“ (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = „Biologischer Grenzwert“ (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

**= The exposure limit for this substances is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042.

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

Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face Protection

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection

Chemical resistant protective gloves (EN 374).

Recommended

Nitril-soaked cotton gloves with CE sign (EN 374)

Minimum layer thickness in mm: 0,15

Permeation time (penetration time) in minutes: ≥ 480

Protective hand cream recommended.

Unsuitable material: Leather gloves

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection

Normally not necessary.

If OES or MEL is exceeded.

Filter P1 (EN 143), code Colour white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rated and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials can not be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Environmental exposure controls

No information available at present.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid, powder

Colour: grey

Odour: odourless

Odour threshold: not determined

pH value: ~ 12 (100g/l)

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

Flash point/flash point range: not applicable

Evaporation rate: not applicable

Flammability (solid, gas): not determined

Lower Explosive limit: Not determined

Upper Explosive Limit: Not determined

Vapour pressure: not determined

Vapour density: not determined

Density: Not determined

Bulk density: 1200 kg/m³

Solubility: not determined

Water solubility: <3 g/l

Partition coefficient: n-octanol/water: not determined

Auto-ignition temperature: not applicable

Decomposition temperature: Not determined

Viscosity: not determined

Explosive properties: Product is not explosive

Oxidizing characteristics: No

9.2 Other information

Miscibility: Not determined

Fat solubility/solvent: Not determined

Conductivity: Not determined

Surface tension: Not determined

Solvents content: 0 %

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

The Product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Protect from humidity.

10.5 Incompatible materials

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

11. Toxicological information**11.1 Information on toxicological effects**

Possibly more information on health effects, see Section 2.1 (classification).

AESTUVER Repair Mortar (AESTUVER Montagemörtel)						
Toxicity/effect	Endpoint	Value	Unit	Orga-nism	Test method	Notes
Acute toxicity (oral)						n.d.a.
Acute toxicity (dermal)						n.d.a.
Acute toxicity (inhalation)						n.d.a.
Skin corrosion/irritation						n.d.a.
Serious eye damage/irritation						n.d.a.
Respiratory or skin sensitisation						Low-chromate, This product contains components that hamper the initiation of sensitization
Germ cell mutagenicity						n.d.a.
Carcinogenicity						n.d.a.
Reproductive toxicity						n.d.a.
specific target organ toxicity - single exposure (STOT-SE)						n.d.a.
specific target organ toxicity - repeated exposure (STOT-RE):						
Aspiration hazard						n.d.a.
Symptoms						n.d.a.

Portland, cement, chemicals						
Toxicity/effect	End-point	Value	Unit	Orga-nism	Test method	Notes
Acute toxicity (oral)	LD50	>2000	mg/kg			
Acute toxicity (dermal)	LD50	>2000	mg/kg	Rabbit		24 h, LIMIT-Test
Acute toxicity (inhalation)	LC50	5	g/m ³	Rabbit		LIMIT-Test
Skin corrosion/irritation						Irritant
Serious eye damage/irritation						Risk of serious damage to eyes
Respiratory or skin sensitisation						Sensitising (skin contact)
Germ cell mutagenicity						No indications of such an effect
Symptoms						mucous membrane irritation
Specific target organ toxicity- single exposure (STOT-SE), inhalative						Irritation of the respiratory tract

Fumes, silica						
Toxicity/effect	End-point	Value	Unit	Orga-nism	Test method	Notes
Acute toxicity (oral)	LC50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity (dermal)	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Skin corrosion/irritation	LC50	>5000	mg/kg	Rabbit	OECD 404 (Acute Dermal Toxicity)	Not irritant, Analogous conclusion
Serious eye damage/irritation				Rabbit	OECD 405 (Acute Dermal Irritation/Corrosion)	Not irritant, Mechanical irritation possible, Analogous conclusion
Respiratory or skin sensitisation						Not sensitizing, Analogous conclusion
Germ cell mutagenicity	NO-AEL	5000	mg/kg	Rat	OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test)	Analogous conclusion
Germ cell mutagenicity				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Aspiration hazard						Negative

Flue dust, portland cement						
Toxicity/effect	End-point	Value	Unit	Orga-nism	Test method	Notes
Skin corrosion/irritation						Irritant
Serious eye damage/irritation						Intensively irritant
Respiratory or skin sensitisation						Sensitising (skin contact)
Specific target organ toxicity- single exposure (STOT-SE), inhalative						Irritation of the respiratory tract

12. Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

AESTUVER Repair Mortar (AESTUVER Montagemörtel)							
Toxicity/effect	End-point	Time	Value	Unit	Orga-nism	Test method	Notes
Toxicity to fish							n.d.a.
Toxicity to daphnia							n.d.a.
Toxicity to algae							n.d.a.
Persistence and degradability							n.d.a.
Bioaccumulative potential							n.d.a.
Mobility in soil							n.d.a.
Result of PBT and vPvB assessment							n.d.a.
Other adverse effects							n.d.a.

Fumes, silica							
Toxicity/effect	End-point	Time	Value	Unit	Orga-nism	Test method	Notes
Toxicity to fish	LC50	96h	>100	mg/l	Bra-chy-danio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
Persistence and degradability							Not relevant for inorganic substances
Toxicity to daphnia	EC50	24h	>1003	mg/l	Bra-chy-danio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
Toxicity to algae	EC50	72h	4200	mg/l	Ske-let-o-nema costatum	ISO 10253	Analogous conclusion

13. Disposal considerations

13.1 Waste treatment methods

For substance/mixture/residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

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

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Allow product to harden.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Suitable incineration plant.

15 01 01 paper and cardboard packaging

14. Transport information

14.1 UN number

ADR/RID, IMDG, IATA: n.a.

14.2 UN proper shipping name

ADR/RID, IMDG, IATA: n.a.

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA: n.a.

14.4 Packing group

ADR/RID, IMDG, IATA: n.a.

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Non-dangerous material according to Transport Regulations.

15. Regulatory information

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

Observe restrictions:

Regulation (EC) No 1907/2006, Annex XVII

Portland ,cement, chemicals

Flue dust, portland cement

Comply with trade association/occupational health regulations.

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

15.2 Chemical Safety Assessment

A chemical safety assessment is not provided for mixtures.

16. Other information

Revised sections: 1, 2, 3, 4, 8, 11, 12, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure
Eye Dam. 1, H318	Classification according to calculation procedure

The following phrases represent the posted Hazards Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 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 - respiratory tract irritation

Skin Irrit. - Skin irritation

Eye Dam. - Serious eye damage

Skin Sens. - Skin sensitization

Any abbreviations and acronyms used in this document

AC	Article Categories
acc., acc. to	according, according to
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL	Acceptable Operator Exposure Level
AOX	Adsorbable organix halogen compounds
approx.	approximately
Art., Art. no.	Artikel number
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BCF	Bioconcentration factor
BMGV	Biological monitoring guidance value (EH40, UK)
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
e.g.	for example
EC	European Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
EU	European Union
EWC	European Waste Catalogue
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC	Intermediate Bulk Container

IBC (Code)	International Bulk Chemical (Code)
IC	Inhibitory concentration
IMDG-code	International Maritime Code for Dangerous Goods
LC	lethal concentration
LC50	lethal concentration 50 percent kill
LClo	lowest published lethal concentration
LD	Lethal Dose of a chemical
LD50	Lethal Dose , 50 % kill
LDlo	Lethal Dose Low
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.a.	not applicable
n.d.a.	no data available
PBT	persists, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
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
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (= Technical Regulations for Hazardous Substances)
UN RTDG	United Nations Recommendations on the Transport of Dangerous Goods
VOC	Volatile organic compounds
vPvB	very persistent and very bioaccumulative
WEL-TWA, WEL-STEL	WEL-TWA= Workplace Exposure Limit - Long-term exposure limit (8-hours TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit- Short-term exposure limit (15-minute reference period)(EH40, UK)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

