

Safety data sheet

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



Trading name: PYROMIX® fire protection mortar

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1. Material/preparation and company designation

1.1 Product identifier

Trading name: PYROMIX® fire protection mortar

Article number: 7206104/7206058

Type: MSX-S1/MSX-E1

Recommended use: Mineral fire protection mortar, for mixture with water, to create fire-resistance insulation for preventive fire protection.

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

No other relevant information available.

1.3 Manufacturer/supplier

OBO Bettermann Holding GmbH & Co. KG

P.O. Box 1120

58694 Menden

Germany

1.4 Division providing information

Customer Service

Tel.: +49 2373 89 - 1700

export@obo.de

1.5 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

Regulation (EC) No. 1272/2008

Hazards categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

2.2 Labelling elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Portland cement

Signal word: Danger

Pictograms:**Hazard statements**

- H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P315 Get immediate medical advice/attention.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash before reuse.

Additional advice on labelling

The product is labelled in accordance with Regulation (EC) no. 1272/2008 (GHS).

2.3 Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance. Dust particles, like other inert materials, are mechanically irritating the eyes. May cause irritation of respiratory tract. Aqueous solution is alkaline. May cause eye/skin irritation. The preparation is low in chromate because the level of sensitizing chromium (VI) is reduced by additives to less than 2 ppm in the cement content of the ready-to-use mortar. Prerequisite for the effectiveness of the chromate reduction is the proper storage and observance of the expiry date (see point 7.2). In case of improper storage (ingress of moisture) or superimposition, the contained chromate reducer may lose its effectiveness .

3. Composition/information on ingredients**3.1 Mixtures****Chemical characterization**

Dry mortar made from mineral binders and aggregates

Hazardous components

CAS-Nr-	Chemical name	Quantity
	EC No	
	GHS-Classification	
65977-15-1	Portland cement	10 - 25 %
	266-043-4	
	Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335	

Full text of H and EUH statements: see section 16.

4. First aid measures**4.1 Description of the first aid measures****General information**

Water forms corrosive alkaline solutions. (pH 11 - 11,5) - Reacts alkaline with water and become solid. Remove contaminated clothing immediately and dispose of safely. Ensure adequate ventilation.

Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust deposits

After inhalation

Take affected person into fresh air. Consult a physician.

Get medical attention, if respiratory irritation develops or if breathing becomes difficult .

After skin contact

Remove contaminated soaked clothing immediately.

In case of contact with skin wash off immediately with plenty of water .

Consult a doctor if skin irritation persists.

After eye contact

Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and then drink plenty of water. Consult a physician.

4.2 Most important acute or delayed symptoms and effects

Causes skin irritation.

Causes serious eye damage.

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Dust particles, like other inert materials, are mechanically irritating the eyes. May cause irritation of respiratory tract.

4.3 Information for immediate medical aid or special treatment

Treat symptoms.

5. Fire protection measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself does not burn. Use fire fighting measures that suit the environment and products stored.

Foam, carbon dioxide (CO₂), dry chemical, water-spray

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

In case of fire, wear suitable respiratory equipment with positive air supply.

Additional information

Knock down dust with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Measures in the case of unintentional release

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin or mucous membrane. Avoid dust formation. Do not breathe dust.

Ensure adequate ventilation, especially in confined areas.

6.2 Environmental protection measures

Do not discharge large amounts into the drains or bodies of water. Inform competent authority about release into the sewage, ground or into waters.

6.3 Methods and material for retention and cleaning

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients. Use chemical neutralizers.

6.4 Reference to other sections

Information for disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Ensure adequate ventilation, especially in confined areas. Avoid the formation of dust. Avoid contact with skin, eyes and clothing. Observe the technical data sheet.

Advice on protection against fire and explosion

No special precautions required

Further information on handling

Take the usual precautions when handling with chemicals. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Keep container tightly closed in a dry, cool and well-ventilated place.
Keep only in original container.

Hints on joint storage

Protect from moisture

Further information on storage conditions

No special storage conditions required.

7.3 Specific end use(s)

See identified use in SECTION 1.2

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No.	Bezeichnung	ppm	mg/m ³	F/m ³	Spitzenbegr.	Art
65997-15-1	Portland cement, respirable dust	-	4		TWA (8h)	WEL

8.2 Exposure controls



Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Take the usual precautions when handling with chemicals. Clean skin thoroughly after working. Use barrier skin cream. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end workday. Avoid contact with the skin and the eyes. At work do not eat, drink, smoke or take drugs.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Chemical-resistant gloves (EN 374), Safety gloves for the site (EN420, Cat. 1 or 2).

Follow the recommendations of the glove manufacturer for the breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection

Protective clothing

Respiratory protection

Not required under normal use.

In case of dust formation wear micro dust mask. Particle filtering half mask (protection level FFP3 or FFP3 No. D).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state: Powder

Colour: Grey

Odour: Odourless

pH-value: Not applicable

Changes in the physical state

Melting point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Sustaining combustion: Not sustaining combustion

Flammability

Solid: Not applicable

Explosive properties

The product is not explosive

Lower explosion limits: Not applicable

Upper explosion limits: Not applicable

Ignition temperature: No data available

Auto-ignition temperature

Solid: No data available

Decomposition temperature: No data available

Oxidizing properties

Not fire-promoting

Vapour pressure: Not applicable

Density: No data available

Water solubility: Slightly soluble

Solubility in other solvents

No data available

Partition coefficient: No data available

Viscosity / dynamic: Not applicable

Viscosity / kinematic: Not applicable

9.2 Other information

Solid content: 100%

No data available

10. Stability and reactivity

10.1 Reactivity

Reactivity with the intended use is not associated with any hazards.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Protect from moisture.

10.5 Incompatible materials

Strong acids., strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Keep only in original container

11. Toxicological data

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution

Health injuries are not known or expected under normal use.

Acute toxicity

Based on available data, the classification criteria are not met.

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity

Ecological data are not available.

12.2 Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances. Inorganic product.

12.3 Bioaccumulation potential

There is no indication of bioaccumulation potential.

12.4 Mobility in soil

Not determined

12.5 Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6 Other adverse effects

Not determined

Further information

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

13.1 Waste treatment methods

Disposal recommendation

Disposal in accordance with local regulations. Should not be disposed of with household waste. Do not empty into drains. Wet the leaked product with water and allow to solidify on air.

List of Wastes Code - residues/unused products

170101 - CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); concrete, bricks, tiles and ceramics; Concrete

List of Wastes Code - contaminated packaging

150101 - WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); paper and cardboard packaging

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

14. Transport information

14.1 UN number

ADR, RID, ADN, IMDG, ICAO-TI, IATA-DGR: No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name

ADR, RID, ADN, IMDG, ICAO-TI, IATA-DGR: No dangerous good in sense of this transport regulation.

14.3 Transport hazard classes

ADR, RID, ADN, IMDG, ICAO-TI, IATA-DGR: No dangerous good in sense of this transport regulation.

14.4 Packaging group

ADR, RID, ADN, IMDG, ICAO-TI, IATA-DGR: No dangerous good in sense of this transport regulation.

14.5 Environmental hazards:

ENVIRONMENTALLY HAZARDOUS: no

14.6 Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

15. Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0 g/l

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other data**Abbreviations and acronyms**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation

Further information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. (n.a. = not applicable; n.d. = not determined)

