

# Safety Data Sheet

## MAPEI FLEXIBLE WALL & FLOOR GROUT



Safety Data Sheet dated 9/5/2008, version 1

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name: MAPEI FLEXIBLE WALL & FLOOR GROUT  
Product type and use: Ready prepared cement mortar.  
Supplier:  
MAPEI UK - Steel Park Road - Halesowen B 62 8HD - West Midlands  
Emergency telephone number of the company and/or of an authorised advisory centre:  
MAPEI S.p.A. - Tel. +(39)02376731  
MAPEI UK - Phone :0044-121 508 6965

Competent person responsible for the safety data sheet:

sicurezza@mapei.it

### 2. HAZARDS IDENTIFICATION

Properties / Symbols:  
Xi Irritant  
R Phrases:  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R43 May cause sensitization by skin contact.

If brought into contact with the eyes, the product causes irritation that may last for over 24h, if inhaled, it causes irritation to the airways, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema  
If brought into contact with the skin, the product may cause sensitisation of the skin.

See at paragraph 11 the additional information concerning crystalline silica

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

30% - 40% free crystalline silica ( $\text{Ø} > 10 \mu$ )  
CAS: 14808-60-7 EC: 238-878-4

30% - 40% Portland cement, Cr(VI) < 2 ppm  
CAS: 65997-15-1 EC: 266-043-4  
Xi; R36/37/38-43

1% - 3% calcium hydroxide  
CAS: 1305-62-0 EC: 215-137-3  
Xi; R38-41

0.1% - 0.25% free crystalline silica ( $\text{Ø} < 10 \mu$ )(\*)  
CAS: 14808-60-7 EC: 238-878-4  
Xn; R48/20

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(\*) Substance not classified according to CE regulations. Precautionary classification for respirable powder quartz: Xn R48/20

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### 4. FIRST AID MEASURES

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

In case of eyes contact:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Do not use eyewash or ointment of any kind before obtaining an examination or advice from an ophthalmologist.

In case of Ingestion:

Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

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### 5. FIRE-FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used:

None in particular.

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### 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

None in particular

Environmental measures:

Cleaning methods:

Rapidly recover the product, wearing protective clothing.

Scoop into containers and seal for disposal.

After the product has been recovered, rinse the area and materials involved with water.

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### 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with skin and eyes and exposure to high dust concentration.

Avoid powder development and deposit

Incompatible materials:

Keep away from water or from damp surroundings.

Storage conditions:

Always keep the containers tightly closed.

Instructions as regards storage premises:

Adequately ventilated premises.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

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Give adequate ventilation to the premises where the product is stored and/or handled.

### Respiratory protection:

Not needed for normal use.

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

A dust mask (P2) should be worn if above exposure limits

### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

### Eye protection:

Safety goggles.

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

### Exposure limit value of single components:

free crystalline silica ( $\text{Ø} > 10 \mu$ )

TLV TWA:: 0,05 mg/m<sup>3</sup> (respirable fraction)

Portland cement, Cr(VI) < 2 ppm

TLV TWA:: (polvere)10 mg/m<sup>3</sup>

calcium hydroxide

TLV TWA:: 5 mg/m<sup>3</sup>

free crystalline silica ( $\text{Ø} < 10 \mu$ )(\*)

TLV TWA:: 0,05 mg/m<sup>3</sup> (respirable fraction)

Carry out the control of the concentrations of the substances with exposure limits assigned, in the working place according to local dispositions

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                           |
|------------------------------|---------------------------|
| Appearance:                  | powder                    |
| Colour:                      | various                   |
| Odour:                       | slight, typical of cement |
| pH:                          | N.A.                      |
| pH(water dispersion, 10%):   | 12                        |
| Melting point:               | == °C                     |
| Boiling point:               | == °C                     |
| Flash point:                 | == °C                     |
| Solid/gas flammability:      | N.A.                      |
| Autoignition temperature:    | == °C                     |
| Explosion limits(by volume): | ==                        |
| Oxidizing properties:        | N.A.                      |
| Vapour pressure:             | == kPa (23°C)             |
| Relative density:            | N.A.                      |
| Apparent density:            | 1.3 g/cm <sup>3</sup>     |
| Solubility in water:         | partly soluble            |
| Lipid solubility:            | insoluble                 |

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Viscosity: N.A.  
Vapour density (air=1): N.A.

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### 10. STABILITY AND REACTIVITY

Conditions to avoid:  
Stable under normal conditions.

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### 11. TOXICOLOGICAL INFORMATION

Route(s) of entry:

Ingestion: Yes  
Inhalation: Yes  
Contact: No

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

calcium hydroxide

LD50 (orale,ratto) = 7340

Corrosive/Irritating Properties:

Skin:

The product can cause irritation by contact.

Eye:

The product can cause irritation by contact

Sensitizing Properties:

Frequent and prolonged skin contacts with cement paste may cause dermatitis.

Carcinogenic Effects:

The IARC (International Agency for Research on Cancer) believes that the crystalline silica inhaled at the workplace can cause lung cancer in man.

However, it also points out that the cancer effect depends on the silica characteristics and on the biological-physical condition of the environment.

There is a large amount of information in support of the fact that increased risk of cancer is limited to persons suffering from silicosis.

In the current situation of studies, protection of workers from silicosis can be ensured by respecting the exposure limit values.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

Additional Information:

Susceptibility to skin irritation and sensitization varies from person to person.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact.

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Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.

During the use of the product it is released a small amount of acetic acid (CAS 64-19-7), that can cause mucous and skin irritation.

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### 12. ECOLOGICAL INFORMATION

Biodegradability: no data available on the preparation.  
Adopt good industrial practices, so that the product is not released into the environment.

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### 13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force. Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of hardened product (EC waste code) : 17 01 01  
Disposal of not hardened product (EC waste code) : 17 01 01  
The suggested European waste code is just based on the composition of the product.  
According to the specific process or application field a different waste code may be necessary.

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### 14. TRANSPORT INFORMATION

|                          |                             |
|--------------------------|-----------------------------|
| UN Number:               | ==                          |
| Rail/Road(RID/ADR):      | not classified as dangerous |
| Sea (IMO/IMDG):          | not classified as dangerous |
| MAR/POL 73/78,Annex III: | not applicable              |
| Air (ICAO/IATA):         | not classified as dangerous |

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### 15. REGULATORY INFORMATION

Chemicals (hazard information and packaging for supply) Regulations – Chip 3.1  
Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

Xi Irritant

R Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

S Phrases:

S2 Keep out of reach of children.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S36/37 Wear suitable protective clothing and gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

Contents:

Portland cement

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## 16. OTHER INFORMATION

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances

Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

ACGIH - Threshold Limit Values - 2004 edition

SAX'S - Dangerous properties of industrial materials

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 3:

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.