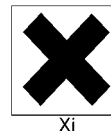


Safety Data Sheet

MAPECEM



Safety Data Sheet dated 14/4/2004, version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: MAPECEM

Product type and use: Special hydraulic binder.

Supplier:

MAPEI S.p.A. -Via Cafiero 22 - Milan -ITALY

Emergency telephone number of the company and/or of an authorised advisory centre:

MAPEI S.p.A. - Tel. +(39)02376731

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

10% - 12.49% Portland cement

CAS: 65997-15-1 EINECS: 266-043-4

Xi R36/37/38 R43

Cr(VI) < 2 ppm

3. HAZARDS IDENTIFICATION

If brought into contact with the skin, the product may cause sensitisation of the skin.

4. FIRST AID MEASURES

Contact with skin:

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.

Contact with eyes:

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.

Swallowing:

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

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.

5. FIRE-FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used:

None in particular.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

None in particular

Environmental measures:

None in particular.

Cleaning methods:

Rapidly recover the product. To so do, wear protective clothing.

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Scoop into containers and seal for disposal.

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

7. HANDLING AND STORAGE

Handling precautions:

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

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

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, when above TLV.

A dust mask should be worn if above exposure limits.

Protection for hands:

Use protective rubber gloves.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: none

Eye protection:

Safety goggles.

Protection for skin:

Use clothing that provides comprehensive protection to the skin.

All the individual protection devices must be consistent to CE relevant standards (as EN 374 for gloves and EN 166 for goggles), maintained efficient and stored in a appropriate way. The life of the protection devices against the chemical agents depends on various factors (the way they are used, climatic factors and storage conditions), that can remarkably reduce also the life foreseen by CE standards. The consultation of the supplier of the protection devices is always recommended.

The education of the worker to the use of the equipment devices is mandatory.

Exposure limit value of single components:

Portland cement

TLV TWA:: (polvere)10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	powder
Colour:	grey
Odour:	slight, typical of cement
pH:	12
Boiling point:	== °C
Flash point:	== °C
Autoignition temperature:	== °C
Explosion limits(by volume):	==
Apparent density:	1.6 g/cm ³
Solubility in water:	partly soluble
Lipid solubility:	insoluble

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.

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

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:

No effects are known.

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.

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.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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.

14. TRANSPORT INFORMATION

UN Number:

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Rail/Road(RID/ADR):

no dangerous good

Sea (IMO/IMDG):

no dangerous good

MAR/POL 73/78,Annex III:

No

Air (ICAO/IATA):

no dangerous good

15. REGULATORY INFORMATION

Classification and Labelling according to EC Directive 99/45:

Symbols:

Xi Irritant

R Phrases:

R43 May cause sensitization by skin contact.

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S Phrases:

S22 Do not breathe dust.

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

S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves.

Contents:

Portland cement

16. OTHER INFORMATION

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

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

ACGIH - Threshold Limit Values (2000)

SAX'S - Dangerous properties of industrial materials - Tenth Edition

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 2:

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

R43 May cause sensitization by skin contact.

Paragraphs modified from the previous revision:

- 2. COMPOSITION/INFORMATION ON INGREDIENTS
- 3. HAZARDS IDENTIFICATION
- 4. FIRST AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION