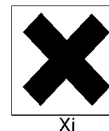


Safety Data Sheet

TOPCEM



Safety Data Sheet dated 27/11/2002, version 2

1. DESIGNATION OF PRODUCT AND COMPANY

Trade name: TOPCEM

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. 02/66101029

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

70% - 84.99% Portland cement, Cr(VI) < 2ppm

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

Xi Irritant

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

R43 May cause sensitization by skin contact.

3% - 4.99% calcium oxide

CAS: 1305-78-8 EINECS: 215-138-9

Xi Irritant

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

1% - 2.49% calcium hydroxide

CAS: 1305-62-0 EINECS: 215-137-3

Xi Irritant

R41 Risk of serious damage to eyes.

3. HAZARDS IDENTIFICATION

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.

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:

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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.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety:
None in particular
Environmental measures:
None in particular.
Cleaning methods:
Rapidly recover the product. To so do, wear protective clothing.
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

Exposure limit values(TLV-TWA): (powder)10 mg/m³
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 gloves.
Eye protection:
Safety goggles.
Protection for skin:
Use clothing that provides comprehensive protection to the skin.
Exposure limit value of single components:
Portland cement
TLV TWA:: (polvere)10 mg/m³
calcium oxide
TLV TWA:: 2 mg/m³
calcium hydroxide
TLV TWA:: 5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	powder
Colour:	grey
Odour:	slight, typical of cement

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pH:	(water dispersion, 10%) 12.5
Boiling point:	== °C
Flash point:	== °C
Autoignition temperature:	== °C
Explosion limits (by volume):	==
Apparent density:	0.85 g/cm ³
Solubility in water:	partly soluble
Lipid solubility:	insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid:
Stable under normal conditions.

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.

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:

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 : 17 01 01

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Disposal of not hardened product :

17 01 01

14. TRANSPORT INFORMATION

UN Number:	==
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:

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

R43 May cause sensitization by skin contact.

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 - Treashold 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.