

Safety Data Sheet

PLANITOP 400

Safety Data Sheet dated 28/11/2012, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
Trade name: PLANITOP 400
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Ready prepared cement mortar.
Uses advised against:
==
- 1.3. Details of the supplier of the safety data sheet
Supplier:
MAPEI S.p.A. - Via Cafiero 22 - Milan - ITALY
Competent person responsible for the safety data sheet:
sicurezza@mapei.it
- 1.4. Emergency telephone number
MAPEI S.p.A. - Tel. +(39)02376731 - (office hours)
Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
Directive criteria, 67/548/CE, 1999/45/EC and following amendments thereof:
Properties / Symbols:

 Xi Irritant

R Phrases:

- R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements



Xi

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.
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.
S36/37 Wear suitable protective clothing and gloves.

Contents:

Portland cement, Cr(VI) < 2 ppm

Special provisions according to Annex XVII of REACH and subsequent amendments:

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None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None

Other Hazards:
No other hazards
See at paragraph 11 the additional information concerning crystalline silica
This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and corresponding classification:
50% - 75% free crystalline silica ($\text{Ø} > 10 \mu$)
CAS: 14808-60-7, EC: 238-878-4

25% - 50% Portland cement, Cr(VI) < 2 ppm
CAS: 65997-15-1, EC: 266-043-4
Xi; R36/37/38-43

SECTION 4: First aid measures

4.1. Description of 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.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

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:

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

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.

This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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Treatment:
(see paragraph 4.1)

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide (CO₂).
Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
The product does not present a fire hazard
- 5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
- 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- 6.3. Methods and material for containment and cleaning up
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.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes and exposure to high dust concentration.
Avoid powder development and deposit
Use localized ventilation system.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Always keep the containers tightly closed.
Incompatible materials:
Keep away from water or from damp surroundings.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters

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free crystalline silica ($\text{Ø} > 10 \mu$) - CAS: 14808-60-7

TLV TWA: - 0,025 mg/m³ (respirable fraction)

Portland cement, Cr(VI) < 2 ppm - CAS: 65997-15-1

TLV TWA: - (polvere)10 mg/m³

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Safety goggles.

Protection for skin:

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

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

Respiratory protection:

Not needed for normal use.

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

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.

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	powder
Colour:	grey
Odour:	slight, typical of cement
Odour threshold:	N.A.
pH:	N.A.
pH(water dispersion,10%):	12.5
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	== °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	N.A.
Apparent density:	1.2 g/cm ³
Vapour density (air=1):	N.A.
Solubility in water:	partly soluble
Solubility in oil:	insoluble
Viscosity:	N.A.
Auto-ignition temperature:	== °C
Explosion limits(by volume):	==

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Decomposition temperature:	N.A.	
Partition coefficient (n-octanol/water):		N.A.
Explosive properties:	==	
Oxidizing properties:	N.A.	
9.2. Other information		
Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties		N.A.

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - None in particular.
- 10.6. Hazardous decomposition products
 - None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Route(s) of entry:
 - Ingestion: Yes
 - Inhalation: Yes
 - Contact: No
 - Toxicological information related to the product:
 - 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.
 - Toxicological information of the mixture:
 - N.A.
 - Toxicological information of the main substances found in the mixture:
 - N.A.
 - 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.

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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.

For this reason, the contact with the skin should be avoided. Once sensitization has occurred, exposures to small amounts of material may cause erythema and edema locally.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Not available data on the mixture

Adopt good industrial practices, so that the product is not released into the environment.

N.A.

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Not available data on the mixture

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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According to the specific process or application field a different waste code may be necessary.

SECTION 14: Transport information

- 14.1. UN number
UN Number: ==
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
Rail/Road(RID/ADR): no dangerous good
ADR-Upper number: NA
Air (ICAO/IATA): no dangerous good
Sea (IMO/IMDG): no dangerous good
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR Environmental Pollutant:
Marine pollutant: No
N.A.
- 14.6. Special precautions for user
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex I)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None
REACH Regulation (1907/2006)

REACH Regulation (1907/2006) – All. XVII
The product contains Cr (VI) under the limit established by annex. XVII pt.47. Respect the duration according to the information described on the packaging

REACH Regulation n° 1907/2006 (REACH) – Art. 59 (Substances in “Candidate List”): N.A.
CLP Regulation n° 1272/2008 (CLP) and s.m.i.
Directive n° 1999/45/CE (Dangerous Preparation) and s.m.i.
Directive n° 67/548/CEE (Substances) and s.m.i.

Directive 2000/39/CE and s.m.i. (Professional threshold limit)

Directive 105/2003/CE (Seveso III): N.A.
ADR Agreement – IMDG Code – IATA Regulation
Wassergefährdungsklasse:

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VOC (2004/42/EC) : N.A. g/l

Social Dialogue on Respirable Crystalline Silica

On April 26, 2006 was signed a multi-sector social dialogue, based on a "Guide to Good Practices", on workers health protection who are in contact with products containing crystalline silica. The text of the agreement published in G.U. European Union (2006 / C 279/02) and the "Guide to Good Practices", with attachments, are available on www.nepsi.eu website, they offer guidelines and useful information for handling products containing respirable crystalline silica.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 5: Firefighting measures
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX'S - Dangerous properties of industrial materials
Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

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.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

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ICAO:	Association" (IATA).
ICAO-TI:	International Civil Aviation Organization.
	Technical Instructions by the "International Civil Aviation Organization"
	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA	Threshold Limit Value for the Time Weighted Average 8 hour day.
	(ACGIH Standard).
OEL:	European threshold limit value
VLE:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
N.A.:	N.A.
N.D.:	