

## Safety Data Sheet

### PLANITOP XS

Safety Data Sheet dated: 10/18/2023 - version 2

Date of first edition: 06/11/2021



## 1. Identification

### Product identifier

Mixture identification:

Trade name: PLANITOP XS

Trade code: 9027573

### Recommended use and restrictions on use

Recommended use: Polymer modified mortar

Restrictions on use: Not available

### Supplier's details

Company: MAPEI INC. (Canada)

2900 Francis-Hughes Avenue

H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsible: RDProductSafety@mapei.com

### Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. Hazard identification



### Classification of the product

Skin corrosion, Category 1A

Causes severe skin burns and eye damage.

Serious eye damage, Category 1

Causes serious eye damage.

Skin Sensitization, Category 1

May cause an allergic skin reaction.

Carcinogenicity, Category 1A

May cause cancer if inhaled.

Specific target organ toxicity following single exposure, Category 3

May cause respiratory irritation.

Specific target organ toxicity following repeated exposure, Category 1

Causes damage to organs through prolonged or repeated exposure if inhaled.

### Label elements

#### Hazard pictograms and Signal Word



Danger

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H350 May cause cancer if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

#### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P333 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
1  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
3  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
8  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P310 Immediately call a doctor.  
P321 Specific treatment (see supplementary instructions on this label)  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with applicable regulations.

**Other hazards**

None

**Ingredient(s) with unknown acute toxicity**

None

---

**3. Composition/information on ingredients**

**Substances**

Not Relevant

**Mixtures**

Hazardous components within the meaning of WHMIS 2015 and related classification:

**List of components**

Qty	Name	Ident. Numb.	Classification	Registration Number
25-50 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350	
20-25 %	portland cement; cement, portland, chemicals	CAS:65997-15-1 EC:266-043-4	STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Corr. 1A, H314	
0.1-0.25 %	lithium carbonate	CAS:554-13-2 EC:209-062-5	Acute Tox. 4, H302; Aquatic Acute 3, H402; Eye Irrit. 2A, H319	01-2119516034-53-XXXX

The actual concentration of the components listed above is withheld as a trade secret.

---

**4. First-aid measures**

**Description of necessary first-aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
Remove contaminated clothing immediately and dispose of safely.  
After contact with skin, wash immediately with soap and plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.

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.  
Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Most important symptoms/effects, acute and delayed**

Eye irritation

Eye damages

Skin Irritation

Erythema

**Indication of immediate medical attention and special treatment needed, if necessary**

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

Treatment:

(see paragraph 4.1)

---

**5. Fire-fighting measures**

**Suitable and unsuitable extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.

**Specific hazards arising from the hazardous product**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

**Special protective equipment and precautions for fire-fighters**

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.

---

**6. Accidental release measures**

**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.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

**Methods and material for containment and cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations

Scoop into containers and seal for disposal.

Retain contaminated washing water and dispose it.

---

**7. Handling and storage**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Do not breathe dust.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Wash skin thoroughly after handling.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Always keep in a well ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature: Not available

## 8. Exposure controls/personal protection

### Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
silica sand; quartz CAS: 14808-60-7	ACGIH		Long Term: 0.025 mg/m <sup>3</sup> A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
	ACGIH		Long Term: 0.025 mg/m <sup>3</sup> A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	MAK	AUSTRIA	Long Term: 0.15 mg/m <sup>3</sup>
	MAK	SWITZERLAND	Long Term: 0.15 mg/m <sup>3</sup>
portland cement; cement, portland, chemicals CAS: 65997-15-1			Long Term: 15 mg/m <sup>3</sup>
	OSHA		Long Term: 5 mg/m <sup>3</sup>
	ACGIH		Long Term: 1 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma;
	ACGIH		Long Term: 1 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	MAK	AUSTRIA	Long Term: 5 mg/m <sup>3</sup>
	MAK	SWITZERLAND	Long Term: 5 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC) values

lithium carbonate CAS: 554-13-2	Exposure Route: Fresh Water; PNEC Limit: 9 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 35.2 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.9 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 3.52 mg/kg
	Exposure Route: Soil; PNEC Limit: 1.76 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 122.2 mg/l
	Exposure Route: Intermittent release; PNEC Limit: 0.3 mg/l

#### Derived No Effect Level (DNEL) values

lithium carbonate CAS: 554-13-2	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 100 mg/kg; Consumer: 19.23 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 30 mg/m <sup>3</sup> ; Consumer: 28.92 mg/m <sup>3</sup>
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 64.3 mg/kg; Consumer: 64.3 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 10 mg/m <sup>3</sup> ; Consumer: 9.64 mg/m <sup>3</sup>
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 6.43 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 19.23 mg/m <sup>3</sup>

#### Appropriate engineering controls

Not available

#### Individual protection measures, such as personal protective equipment (PPE)

#### Eye protection:

Use close fitting safety goggles, don't use eye lens.

#### Protection for skin:

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

#### Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

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

#### Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

---

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Solid

Appearance and colour: powder Grey

Odour: cement like

Odour threshold: Not Relevant

pH: Not Relevant

pH (water dispersion, 10%): 11.50

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Flash point: Not Relevant

Evaporation rate: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: Not Relevant

Vapour pressure: Not Relevant

Relative density: Not Relevant

Solubility in water: dispersible

Solubility in oil: Not Relevant

Partition coefficient (n-octanol/water): Not Relevant

Auto-ignition temperature: Not Relevant

Decomposition temperature: Not Relevant

Viscosity: Not Relevant

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Solid/gas flammability: Not Relevant

### Other information

Substance Groups relevant properties Not Relevant

Miscibility: Not Relevant

Fat Solubility: Not Relevant

Conductivity: Not Relevant

---

## 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

## 11. Toxicological information

### Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

### Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin corrosion, Category 1A(H314)
c) serious eye damage/irritation	The product is classified: Serious eye damage, Category 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sensitization, Category 1(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	The product is classified: Carcinogenicity, Category 1A(H350)
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: Specific target organ toxicity following single exposure, Category 3(H335)
i) STOT-repeated exposure	The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

### Toxicological information on main components of the mixture:

silica sand; quartz	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
lithium carbonate	a) acute toxicity	LD50 Oral Rat 525 mg/kg NOAEL Oral = 19.23 mg/kg LC50 Inhalation Rat > 2 mg/l 4h LD50 Skin Rat > 3000 mg/kg LC50 Inhalation Rat > 2.17 mg/l 4h LD50 Oral Rat = 525 mg/kg
	c) serious eye damage/irritation	Eye Irritant Rat Positive
	e) germ cell mutagenicity	NOAEL Oral Rat > 90 mg/kg
	g) reproductive toxicity	NOAEL Oral Rat = 15 mg/kg
	i) STOT-repeated exposure	NOAEL Oral = 6.43 mg/kg
		NOAEL Skin = 64.3 mg/kg NOAEL Inhalation = 0.01 mg/l

### Substance(s) listed on the IARC Monographs:

silica sand; quartz                      Group 1

### Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

### Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

### Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

---

## 12. Ecological information

### Ecotoxicity

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

### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
silica sand; quartz	CAS: 14808-60-7 - EINECS: 238-878-4	a) Aquatic acute toxicity : LC50 carp > 10000 mg/L 72h
lithium carbonate	CAS: 554-13-2 - EINECS: 209-062-5	a) Aquatic acute toxicity : LC50 Fish = 30.3 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 33 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 400 mg/L 72 b) Aquatic chronic toxicity : NOEC Fish = 19.1 mg/L 96 b) Aquatic chronic toxicity : NOEC Fish = 15.25 mg/L - 21 d b) Aquatic chronic toxicity : NOEC Daphnia = 20 mg/L 48 b) Aquatic chronic toxicity : NOEC Daphnia = 9 mg/L - 21 d b) Aquatic chronic toxicity : NOEC Algae = 50 mg/L 72 a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 30.3 mg/L 96h ECHA

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

---

## 13. Disposal considerations

### Safe handling and methods for disposal

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

#### Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

#### Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

#### Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

---

## 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

### UN number

TDG-UN number: Not Applicable

ADR-UN number: Not Applicable

DOT-UN Number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

### UN proper shipping name

TDG-Shipping Name: Not Applicable

ADR-Shipping Name: Not Applicable  
DOT-Proper Shipping Name: Not Applicable  
IATA-Technical name: Not Applicable  
IMDG-Technical name: Not Applicable

**Transport hazard class(es)**

TDG-Class: Not Applicable  
ADR-Class: Not Applicable  
DOT-Hazard Class: Not Applicable  
IATA-Class: Not Applicable  
IMDG-Class: Not Applicable

**Packing group**

TDG-Packing Group: Not Applicable  
ADR-Packing Group: Not Applicable  
DOT Packing Group: Not Applicable  
IATA-Packing group: Not Applicable  
IMDG-Packing group: Not Applicable

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: Not Applicable  
DOT-RQ: No

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

Not Applicable

**Special precautions in connection with transport or conveyance**

TDG:

Not Applicable

Department of Transportation (DOT):

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

---

**15. Regulatory information**

**Canada - Federal regulations**

**DSL - Domestic Substances List**

All the substances are listed in the DSL.

**NDSL - Non Domestic Substances List**

**NPRI - National Pollutant Release Inventory**

**NPRI (National Pollutant Release Inventory) - List of substances listed.**

No substances listed

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

silica sand; quartz is listed in TSCA Section 8b

portland cement; cement, is listed in TSCA Section 8b  
portland, chemicals

lithium carbonate is listed in TSCA Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

No substances listed

**Section 304 - Hazardous substances:**

No substances listed

**Section 313 - Toxic chemical list:**

lithium carbonate

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**





A.9/1 STOT RE 1 Specific target organ toxicity following repeated exposure, Category 1  
CAN-HAE/A3 Aquatic Acute 3 Acute (short-term) aquatic hazard - Category 3

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION