

**Safety Data Sheet**  
**KERAFLEX PLUS WHITE**

Safety Data Sheet dated: 08/05/2024 - version 6

Date of first edition: 10/15/2018



**1. IDENTIFICATION**

**Product identifier**

Mixture identification:

Trade name: KERAFLEX PLUS WHITE

Trade code: 9011948

**Recommended use of the chemical and restrictions on use**

Recommended use: Polymer modified mortar

Restrictions on use: Not available

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

**Emergency 24 hour numbers:**

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

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

**2. HAZARD(S) IDENTIFICATION**



**Classification of the chemical**

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.

H318 Causes serious eye damage.

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.

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+P333 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with applicable regulations.

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

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Not Relevant

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

| Qty     | Name   | Ident. Numb.                   | Classification   | Registration Number |
|---------|--|--------------------------------|--|---------------------|
| 50-75 % | silica sand; quartz                          | CAS:14808-60-7<br>EC:238-878-4 | STOT RE 1, H372; Carc. 1A, H350  |                     |
| 25-50 % | portland cement; cement, portland, chemicals | CAS:65997-15-1<br>EC:266-043-4 | STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Corr. 1A, H314 |                     |
| 1-2.5 % | calcium formate; Formic acid, calcium salt   | CAS:544-17-2<br>EC:208-863-7   | Eye Dam. 1, H318; Comb. Dust, USH003                                       |                     |

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
Obtain medical attention if skin related symptoms persist.  
Remove contaminated clothing immediately and dispose of 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:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

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.

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

Eye irritation  
Eye damages  
Skin Irritation

Erythema

**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).

Treatment:

(see paragraph 4.1)

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

Water.

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

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available

Oxidizing properties: Not available

**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.

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**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.

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**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.

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.

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

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

## Community Occupational Exposure Limits (OEL)

|  | OEL Type | Country         | Occupational Exposure Limit   |
|--|----------|-----------------|---|
| silica sand; quartz<br>CAS: 14808-60-7                             | ACGIH    |                 | Long Term: 0.025 mg/m <sup>3</sup><br>A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis                          |
|  | MAK      | AUSTRIA         | Long Term: 0.15 mg/m <sup>3</sup>   |
|  | ACGIH    |                 | Long Term: 0.025 mg/m <sup>3</sup><br>(R), A2 - Pulm fibrosis, lung cancer  |
|  | MAK      | SWITZERLAN<br>D | Long Term: 0.15 mg/m <sup>3</sup>   |
|  | EU       |                 | Long Term: 0.1 mg/m <sup>3</sup><br>Behaviour Binding   |
| portland cement; cement,<br>portland, chemicals<br>CAS: 65997-15-1 | OSHA     |                 | 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><br>A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma; |
|  | ACGIH    |                 | Long Term: 1 mg/m <sup>3</sup><br>A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma  |
|  | MAK      | AUSTRIA         | Long Term: 5 mg/m <sup>3</sup>  |
|  | MAK      | SWITZERLAN<br>D | Long Term: 5 mg/m <sup>3</sup>  |

Appropriate engineering controls: Not available

### Individual protection measures

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Solid

Appearance and colour: powder white

Odour: cement like

Odour threshold: No data available

pH: No data available

pH (water dispersion, 10%): 12.50

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: Not Applicable

Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available

Vapour pressure: No data available

Relative density: 1.50 g/cm<sup>3</sup>

Solubility in water: dispersible  
Solubility in oil: No data available  
Partition coefficient (n-octanol/water): No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity: No data available  
Explosive properties: No data available  
Oxidizing properties: No data available  
Solid/gas flammability: No data available

**Other information**

Substance Groups relevant properties No data available  
Miscibility: No data available  
Fat Solubility: No data available  
Conductivity: No data available

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**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.

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**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Toxicological Information of the Preparation**

- |                                      |   |
|--------------------------------------|---|
| a) acute toxicity                    | Not classified<br>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<br>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<br>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<br>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 > 2000 mg/kg<br>LD50 Skin > 2000 mg/kg |
| calcium formate; Formic acid, calcium salt | a) acute toxicity | LD50 Oral Rat = 2650 mg/kg                       |

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

**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

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**12. ECOLOGICAL INFORMATION****Toxicity**

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

Eco-Toxicological Information:

**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**

calcium formate; Formic acid,  
calcium salt

CAS: 544-17-2 - a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio  $\geq$  1000 mg/L 96h  
EINECS: 208- IUCLID  
863-7

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

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.

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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

DOT-UN Number: Not Applicable

ADR-UN number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

**UN proper shipping name**

DOT-Proper Shipping Name: Not Applicable

ADR-Shipping Name: Not Applicable

IATA-Technical name: Not Applicable

IMDG-Technical name: Not Applicable

**Transport hazard class(es)**

DOT-Hazard Class: Not Applicable

ADR-Class: Not Applicable

IATA-Class: Not Applicable

IMDG-Class: Not Applicable

**Packing group**

DOT Packing Group: Not Applicable

ADR-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 MARPOL73/78 and the IBC Code**

Not Applicable

**Special precautions**

Department of Transportation (DOT):

Not Applicable

Road and Rail ( ADR-RID ) :

Not Applicable

Air ( IATA ) :

Not Applicable

Sea ( IMDG ) :

Not Applicable

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**15. REGULATORY INFORMATION**

**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

calcium formate; Formic acid, is listed in TSCA Section 8b  
calcium salt

**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:**

No substances listed

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

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

No substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

No substances listed

**CWA - Clean Water Act**

**CWA listed substances:**

No substances listed

## USA - State specific regulations

### California Proposition 65

#### Substance(s) listed under California Proposition 65:

silica sand; quartz                      Listed as carcinogen

### Massachusetts Right to know

#### Substance(s) listed under Massachusetts Right to know:

silica sand; quartz  
portland cement; cement, portland, chemicals

### Pennsylvania Right to know

#### Substance(s) listed under Pennsylvania Right to know:

silica sand; quartz  
portland cement; cement, portland, chemicals

### New Jersey Right to know

#### Substance(s) listed under New Jersey Right to know:

silica sand; quartz  
portland cement; cement, portland, chemicals

## Canada - Federal regulations

### DSL - Domestic Substances List

All the substances are listed in the DSL.

### NDSL - Non Domestic Substances List

This product complies with NDSL inventory

### NPRI - National Pollutant Release Inventory

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

No substances listed

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## 16. OTHER INFORMATION

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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

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

This SDS cancels and replaces any preceding release.

| Code   | Description   |
|--------|---|
| H314   | Causes severe skin burns and eye damage.                        |
| H317   | May cause an allergic skin reaction.                            |
| H318   | Causes serious eye damage.                                      |
| H335   | May cause respiratory irritation.                               |
| H350   | May cause cancer.   |
| H372   | Causes damage to organs through prolonged or repeated exposure. |
| USH003 | May form combustible dust concentrations in air.                |

| Code      | Hazard class and hazard category | Description  |
|-----------|----------------------------------|--|
| A.2/1A    | Skin Corr. 1A                    | Skin corrosion, Category 1A  |
| A.3/1     | Eye Dam. 1                       | Serious eye damage, Category 1   |
| A.4.2/1   | Skin Sens. 1                     | Skin Sensitization, Category 1   |
| A.6/1A    | Carc. 1A                         | Carcinogenicity, Category 1A   |
| A.8/3     | STOT SE 3                        | Specific target organ toxicity following single exposure, Category 3   |
| A.9/1     | STOT RE 1                        | Specific target organ toxicity following repeated exposure, Category 1 |
| US-ADD/CD | Comb. Dust                       | Combustible dust   |

### 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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION