

Safety Data Sheet
MAPECRETE HARD LI

Safety Data Sheet dated: 09/14/2021 - version 5

Date of first edition: 05/04/2017



1. Identification

Product identifier

Mixture identification:

Trade name: MAPECRETE HARD LI

Trade code: 9017971

Recommended use and restrictions on use

Recommended use: Sealant

Restrictions on use: N.A.

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 Corr. 1A Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Label elements

Pictograms and Signal Words



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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.

P310 Immediately call a doctor.

P321 Specific treatment (see supplementary instructions on this label)

P363 Wash contaminated clothing before reuse.

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

N.A.

Mixtures

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

List of components

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
5-10 %	potassium silicate; Silicic acid, potassium salt	CAS:1312-76-1 EC:215-199-1	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
5-10 %	potassium methylsilanetriolate; methylsilanetriol potassium	CAS:31795-24-1	Skin Corr. 1A, H314; Eye Dam. 1, H318	
1-2.5 %	silicic acid, lithium salt; Lithium polysilicate	CAS:12627-14-4 EC:235-730-0	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; STOT SE 3, H335	

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.

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:

- Remove casualty to fresh air and keep warm and at rest.

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 (CO₂).

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: N.A.
- 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.
- Remove persons to safety.
- 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

- Suitable material for taking up: absorbing material, organic, sand
 - 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.
- 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

- Storage temperature: N.A.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
-

8. Exposure controls/personal protection

Control parameters

No data available

Appropriate engineering controls

N.A.

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.
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9. Physical and chemical properties

Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: liquid clear
- Odour: Odourless
- Odour threshold: Not Relevant
- pH: 12.22
- Melting point / freezing point: Not Relevant
- Initial boiling point and boiling range: 100 °C (212 °F)
- Flash point: 100 °C (212 °F)
- 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

Toxicological information of the mixture:

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 on main components of the mixture:

potassium silicate; Silicic acid, potassium salt a) acute toxicity LD50 Oral Rat = 1300 mg/kg

LD50 Oral Rat = 5700 mg/kg

If not differently specified, the information required in the regulation and 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
Toxicological kinetics, metabolism
and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

None

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

None

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

None

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

None

12. Ecological information**Ecotoxicity**

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

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
potassium silicate; Silicic acid, potassium salt	CAS: 1312-76-1 - EINECS: 215-199-1	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 301 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 3185 mg/L 96h IUCLID

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**UN number**

TDG-UN number: UN3267

ADR-UN number: 3267

DOT-UN Number: UN3267

IATA-Un number: 3267

IMDG-Un number: 3267

UN proper shipping name

TDG-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium methylsilanetriolate; methylsilanetriol potassium)

ADR-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium methylsilanetriolate; methylsilanetriol potassium)

DOT-Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (potassium methylsilanetriolate; methylsilanetriol potassium)

IATA-Technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium methylsilanetriolate; methylsilanetriol potassium)

IMDG-Technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium methylsilanetriolate; methylsilanetriol potassium)

Transport hazard class(es)

TDG-Class: 8

ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8

IMDG-Class: 8

Packing group

TDG-Packing Group: III

ADR-Packing Group: III

DOT Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

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

N.A.

Special precautions in connection with transport or conveyance

TDG:

TDG Special provisions: 16

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID) :

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA) :

IATA-Passenger Aircraft: 852

IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG) :

IMDG-Stowage Code: Category A SW2

IMDG-Stowage Note: SG35

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-A, S-B

IMDG-MFAG: N/A

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

No substances listed

NPRI - National Pollutant Release Inventory**Substances listed in NPRI:**

No substances listed

USA - Federal regulations**TSCA - Toxic Substances Control Act****TSCA inventory:**

All the components are listed on the TSCA inventory

TSCA listed substances:

potassium silicate; Silicic acid, potassium salt is listed in TSCA Section 8b

potassium methylsilanetriolate; methylsilanetriol potassium is listed in TSCA Section 8b

silicic acid, lithium salt; Lithium polysilicate 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:

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:**

No substances listed

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

No substances listed

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

No substances listed

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

No substances listed

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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 12. ECOLOGICAL INFORMATION