

**Safety Data Sheet**  
**MAPECRETE ASR (NA)**

Safety Data Sheet dated: 09/24/2025 - version 2

Date of first edition: 08/16/2024



## 1. IDENTIFICATION

### Product identifier used on the label

Mixture identification:

Trade name: MAPECRETE ASR (NA)

Trade code: 9017991

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

Recommended use: Admixture for concrete

Restrictions on use: Not available

### Name, U.S. address, and U.S. 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

Acute toxicity (oral), Category 4

Harmful if swallowed.

Eye irritation, Category 2A

Causes serious eye irritation.

### Label elements

#### Hazard pictograms and Signal Word



Warning

### Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

### Precautionary statements

P264 Wash skin thoroughly after handling.

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

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

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

### Hazards associated with foreseeable chemical reactions

None

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

None

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

None

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### 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                                               |
|-------------|--------------------------------------------|-------------------------------|--------------------------------------------------------------|
| ≥30 - <36 % | lithium nitrate; Nitric acid, lithium salt | CAS:7790-69-4<br>EC:232-218-9 | Acute Tox. 4, H302; Eye Irrit. 2A, H319;<br>Ox. Sol. 3, H272 |

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

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### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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 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:

Give nothing to eat or drink.

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

#### 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 (CO2).

#### 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.

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.

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## 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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational Exposure Limits (OEL)

|                                                              | OEL Type | Country | Occupational Exposure Limit |
|--------------------------------------------------------------|----------|---------|-----------------------------|
| lithium nitrate; Nitric acid, lithium salt<br>CAS: 7790-69-4 | MAK      | GERMANY | Long Term: 0,2 mg/m3        |

Appropriate engineering controls: Not available

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                          |                     |
|------------------------------------------|---------------------|
| Physical state:                          | Liquid              |
| Appearance and colour:                   | liquid white/yellow |
| Odour:                                   | odourless           |
| Odour threshold:                         | No data available   |
| Melting point / freezing point:          | 0 °C (32 °F)        |
| Initial boiling point and boiling range: | 100 °C (212 °F)     |
| Flammability:                            | No data available   |
| Upper/lower flammability or explosive    | No data available   |

|                                          |                        |
|------------------------------------------|------------------------|
| limits:                                  |                        |
| Flash point:                             | 100 °C (212 °F)        |
| Auto-ignition temperature:               | No data available      |
| Decomposition temperature:               | No data available      |
| pH:                                      | 6.00                   |
| Viscosity:                               | No data available      |
| Kinematic viscosity:                     | > 20,5 mm2/sec (40 °C) |
| Solubility in water:                     | very soluble           |
| Solubility in oil:                       | insoluble              |
| Partition coefficient (n-octanol/water): | No data available      |
| Vapour pressure:                         | 2.34 (kPa 50°C).       |
| Evaporation rate:                        | No data available      |
| Relative density:                        | 1.20 g/cm3             |
| Vapour density:                          | 0.017 kPa              |

#### Particle characteristics:

|                |                   |
|----------------|-------------------|
| Particle size: | No data available |
|----------------|-------------------|

#### Other information

|                                       |                   |
|---------------------------------------|-------------------|
| Explosive properties:                 | No data available |
| Oxidizing properties:                 | No data available |
| Solid/gas flammability:               | No data available |
| Substance Groups relevant properties: | No data available |
| Miscibility:                          | No data available |
| Fat Solubility:                       | No data available |
| Conductivity:                         | No data available |

## 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 Preparation

|                                  |                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| a) acute toxicity                | The product is classified: Acute toxicity (oral), Category 4(H302)<br>ATEmix - Oral : 1666.67 mg/kg bw |
| b) skin corrosion/irritation     | Not classified<br>Based on available data, the classification criteria are not met                     |
| c) serious eye damage/irritation | The product is classified: Eye irritation, Category 2A(H319)                                           |

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| d) respiratory or skin sensitisation | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity            | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| f) carcinogenicity                   | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| g) reproductive toxicity             | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| h) STOT-single exposure              | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure            | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| j) aspiration hazard                 | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |

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

|                                            |                   |                                    |
|--------------------------------------------|-------------------|------------------------------------|
| lithium nitrate; Nitric acid, lithium salt | a) acute toxicity | LD50 Skin Rat > 2000 mg/kg         |
|                                            |                   | LC50 Inhalation Rat > 5,93 mg/l 4h |

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

lithium nitrate; Nitric acid, lithium salt Group 2A

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

lithium nitrate; Nitric acid, lithium salt

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

None

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

None

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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

### **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 IMO instruments**

N.A.

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

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

lithium nitrate; Nitric acid, lithium is listed in TSCA Section 8b 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:**

lithium nitrate; Nitric acid, lithium salt

**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:**

lithium nitrate; Nitric acid, lithium salt

**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

**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                      |                                   |
|------------|----------------------------------|-----------------------------------|
| H272       | May intensify fire; oxidiser.    |                                   |
| H302       | Harmful if swallowed.            |                                   |
| H319       | Causes serious eye irritation.   |                                   |
| Code       | Hazard class and hazard category | Description                       |
| A.1/4/Oral | Acute Tox. 4                     | Acute toxicity (oral), Category 4 |
| A.3/2A     | Eye Irrit. 2A                    | Eye irritation, Category 2A       |
| B.14/3     | Ox. Sol. 3                       | Oxidising solids, 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.  
EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008  
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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION