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

1.1 Product identifier

Limecrete 401, natural hydraulic lime-based load bearing concrete.

1.2 Relevant identified uses of the substance or mixture

Used in repair and strengthening works in historical structures.

1.3 Details of the supplier of the safety data sheet

Company name:	Sozeri Industry Co. Inc.
Address:	Ankara-Izmir Road Turgutlu 8. Km Manisa/Turkey
Telephone:	+90 212 276 62 62
Website:	www.tic-m.com
Email:	info@tic-m.com

1.4 Emergency telephone number

Emergency telephone Number	+90 (212) 276 62 62 (available during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

According to UN GHS criteria
Skin Corr./Irrit. 2
Eye Dam. /Irrit. 1

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Pictogram:

Signal Word: Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.

Precautionary Statement:

P102	Keep out of reach of children.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P264	Wash with plenty of water and soap thoroughly after handling.

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Precautionary Statements (Response):

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 POISON CENTER or doctor/physician
P303 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

According to Regulation (EC) No 1272/2008 [CLP]
Hazard determining component(s) for labelling: CALCIUM DIHYDROXIDE

2.3 Other hazards

According to Regulation (EC) No 1272/2008 [CLP]
If applicable information is provided in this section on other hazards which do not result in classification, but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature
Preparation based on: fillers

Hazardous ingredients (GHS)
According to UN GHS criteria

Calcium dihydroxide

Content (W/W): < 30 %	Skin Corr./Irrit. 2
CAS Number: 1305-62-0	Eye Dam. /Irrit. 1
EC-Number: 215-137-3	H318, H315

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

4.1.1 General information

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

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4.1.2 If inhaled
After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

4.1.3 On skin contact
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

4.1.4 On contact with eyes
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

4.1.5 On ingestion
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor

4.2 Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media
Additional information:
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

5.2 Special hazards arising from the substance or mixture
Product is not combustible or explosive. No particular hazards known.

5.3 Advice for fire-fighters
Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

6.2 Environmental precautions
Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
Sweep/shovel up.

6.4 Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous "Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

7.1.1 Protection against fire and explosion
No special precautions necessary.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Suitable materials for containers
High density polyethylene (HDPE), Low density polyethylene (LDPE)

7.2.2 Further information on storage conditions
Containers should be stored tightly sealed in a dry place.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters
Components with occupational exposure limits
1305-62-0: Calcium dihydroxide
1317-65-3: Limestone
14808-60-7: Quartz (SiO2).

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8.2 Exposure controls
Personal protective equipment

8.2.1 Respiratory protection
Breathing protection if dusts are formed. (Particle filter EN 143 P1)

8.2.2 Hand protection
nitrile coated cotton gloves (e.g. EN 388, 374)

8.2.3 Eye protection
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

8.2.4 Body protection
Body protection must be chosen based on level of activity and exposure., light protective clothing

8.2.5 General safety and hygiene measures
Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Contaminated equipment or clothing should be cleaned after each use or disposed of.

8.2.6 Environmental exposure controls
For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	powder
Color:	whitish
Odor:	odorless
Odor threshold:	No applicable information available.
pH value:	12 (20 °C, as aqueous suspension)
Melting point:	not determined
Flash point:	not applicable
Evaporation rate:	The product is a non-volatile solid
Boiling point:	not applicable, solid with a melting temperature over 300 °C
Flammability:	not flammable
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosols
Lower explosion limit:	dropped

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Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapor pressure:	The product has not been tested.
Relative vapor density (air):	The product is a non-volatile solid
Solubility in water:	of low solubility (20 °C)
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Self-ignition:	not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2 Other information

Self-heating ability:	Study does not need to be conducted
Bulk density:	approx. 1.550 kg/m3
Solids content:	100 %
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid: strong bases, strong acids

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

11.1.1 Acute toxicity
Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

11.1.2 Irritation
Assessment of irritating effects:
Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

11.1.3 Respiratory/Skin sensitization
Assessment of sensitization:
There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.
Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

11.1.4 Germ cell mutagenicity
Assessment of mutagenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.5 Carcinogenicity
Assessment of carcinogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.6 Reproductive toxicity
Assessment of reproduction toxicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.7 Developmental toxicity
Assessment of teratogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.8 Specific target organ toxicity (single exposure)
Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

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Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

11.1.9 Repeated dose toxicity and Specific target organ toxicity (repeated exposure)
Assessment of repeated dose toxicity:
No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components

11.1.10 Other relevant toxicity information
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12: Ecological Information

12.1 Toxicity
Assessment of aquatic toxicity:
Acutely harmful for aquatic organisms. The ecotoxicological effects are solely caused by the pH.

12.2 Persistence and degradability
Elimination information:
not applicable.

12.3 Bio accumulative potential
Assessment bioaccumulation potential:
The product will not be readily bioavailable due to its consistency and insolubility in water.

12.4 Mobility in soil
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5 Other adverse effects
The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.6 Additional information
Other ecotoxicological advice:
Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Observe national and local legal requirements.
Residues should be disposed of in the same manner as the substance/product.

13.1.1 Contaminated packaging

Completely emptied packaging's can be given for recycling.

SECTION 14: Transport Information

Land transport

ADR Not classified as a dangerous good under transport regulations
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

RID Not classified as a dangerous good under transport regulations
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Inland waterway transport

ADN Not classified as a dangerous good under transport regulations
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Sea transport

IMDG Not classified as a dangerous good under transport regulations
UN number: Not applicable

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UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

14.1 UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2 UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3 Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4 Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5 Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6 Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

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SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned section 2 or 3:

Skin Corr. /Irrit.	Skin corrosion/irritation
Eye Dam. /Irrit.	Serious eye damage/eye irritation
H318	Causes serious eye damage
H315	Causes skin irritation

Further informations

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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