



MATERIAL SAFETY DATA SHEETS  
(MSDS)

Name of the substance / mixture	Revision date: 06.09.2022
MYFIX LTY LITHIUM SILICATE BASED SURFACE HARDENER	Date of preparation: 27.02.2019

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier:

Trade name : MYFIX LTY Lithium silicate based surface hardener

Product code : MY.412, MY.444, MY.445.

General use : Dust-proof, water-based, glossy, lithium silicate-based, liquid surface hardener designed for application on concrete and cement-based floors.

Company : YILDIZ YAPI KİMYASALLARI SAN. ve TİC. LTD. ŞTİ.  
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Emergency telephone number : 0262 728 11 10  
Poison Information Centre: 114 (NATIONAL)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Introduction of classification and hazards: (T.C. 28848)

Serious eye damage/eye irritation-Category 1 H318

Specific target organ toxicity, Single exposure; Respiratory tract irritation-Category 3 H335

### 2.2. GHS Label elements



Signal word: Warning

#### Hazard statements

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

#### Precautionary statements

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P388+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Contains: Lithium silicate, water.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

##### LITHIUM SILICATE

CAS number	Concentration %	Classification	EC number
12627-14-4	-	Serious eye damage 1, H318 Single exposure; Respiratory tract irritation 3, H335	235-730-0

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

GENERAL ADVICE:	In case of doubt, seek medical advice immediately. Demonstrate this Safety Data Sheet to health personnel.
IF INHALED:	Take the person to fresh air, keep warm and rest. If breathing is irregular or stopped, apply artificial respiration. Do not give anything by mouth. If the person loses consciousness, call for medical help.
IF SWALLOWED:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
IN CASE OF SKIN CONTACT:	Remove contaminated clothing and shoes immediately. Wash with soap and plenty of water. Do not use solvent or thinner. Consult a physician.
IN CASE OF EYE CONTACT:	If available, remove contact lenses and wash thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Known symptoms and effects are indicated on the label: Section 2.2 and / or Section 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Demonstrate this Safety Data Sheet to health personnel.

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING MEDIA:

Carbon dioxide, foam, dust and water vapour.

##### EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

Lithium oxide, silicone oxide.



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### 5.3. Advice for firefighters

If necessary, use a full mask with oxygen tube to extinguish fire.

Collect the extinguishing water containing harmful substances in a separate place so that it does not flow into the sewer system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Choose clothing that can protect the entire body and skins such as non-permeable protective clothing, neoprene boots and long nitrile rubber gloves.

### 6.2. Environmental precautions

If the product spills on rivers, lakes or drains, notify the relevant authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Provide adequate ventilation. Absorb with inert absorbent material and dispose of as hazardous waste. Store waste in closed containers suitable for this purpose.

### 6.4. Reference to other sections

Potential information on personal protection and disposal is set out in Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe vapour or vapour cloud. Do not smoke. For precautions see: Section 2.2.

### 7.2. Conditions for safe storage, including any incompatibilities

Store dry, well-ventilated, away from heat sources and direct sunlight at (+ 5 °C) - (+30 °C). Keep away from sources of ignition. Store away from foodstuffs. Prevent unauthorized use. The opened product should be carefully closed again and kept upright to prevent leakage. Do not pour into the sewer. Protect from frost.

### 7.3. Specific end use(s)

No data available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Exposure control parameters

No data available.

### 8.2. Exposure controls

#### 8.2.1. Engineering Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day.

#### Personal Protective Equipment

##### Eye / Face protection:

Use eye protection equipment like face shield and safety goggles that has been tested and approved in accordance with standards such as NIOSH (US) or EN 166 (EU).



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**Skin protection:**

Wear gloves when handling. Gloves should be checked before use. To prevent skin contact with this product, use the correct glove removal method (without touching the outer surface of the glove). Contaminated gloves must be disposed of in accordance with good laboratory practice and compliance guidelines. Wash and dry your hands. The selected protective gloves must comply with the EU Directive 89/686 / EEC and the standard EN 374 on the basis of this Directive. Protect the head, face and neck from contact with the product.

**Material of gloves:** Nitrile rubber.

**Respiratory protection:**

For the use of breathing apparatus with air purification in the risk assessment, use redundant multi-purpose combined (United States of America) full-face breathing apparatus for controls. Use one-way respirators for protection. Use relevant devices and equipment, such as NIOSH (United States) or CEN (European Union). Environmental exposure control Take care not to enter into drains.

**Environmental exposure controls:**

The product must not penetrate into the sewer system.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Transparent.
Odour	: No data available
Odour threshold	: No data available
pH value	: 11±1 (20°C)
Melting point / Freezing point	: No data available
Initial boiling point/range	: Not applicable
Boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability of solids and gases	: No data available
Lower flammability limit	: No data available
Upper flammability limit	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Density	: 1,10±0,04 g/ml
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Flammable properties	: No data available

### 9.2. Other information

No data available.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity



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There is no special reaction hazard with other substances under normal conditions of use.

### 10.2. Chemical stability

The product is stable under normal use and storage conditions.

### 10.3. Possibility of hazardous reactions

There is no special reaction hazard with other substances under normal use and storage conditions.

### 10.4. Conditions to avoid

There is no special reaction hazard with other substances under normal use and storage conditions.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

In the event of fire, hazardous decomposition products are formed.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

This section contains information that has been created primarily for use by healthcare professionals, occupational health and safety experts and toxicologists. It includes a brief but complete and understandable explanation of the various toxicological (health) effects and the available information used to determine these effects, including toxic kinetic, metabolism and distribution, where appropriate. The information in this section is consistent with the classification of the substance or mixture. Under normal use, primary exposure occurs through skin and eye contact.

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** It's irritating. It has an irritating effect on the skin and the mucous membrane.

**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitisation:** Causes skin irritation.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** IARC: No content of this product, which is 0.1% or more, is defined by the IARC as a possible, probable or approved carcinogen.

**Reproductive toxicity:** No data available.

**STOT-Specific target organ toxicity-Single exposure:** No data available.

**STOT-Specific target organ toxicity-Repeated exposure:** No data available.

**Aspiration toxicity:** No data available.

**MEDICAL WARNINGS:** In case of contact with eyes and skin, wash with plenty of clean water. Do not induce vomiting if swallowed. In case of inhalation, remove to fresh air and treat according to symptoms.

## SECTION 12. ECOLOGICAL INFORMATION

The material is capable of altering local pH values and can be harmful to fish and bacteria. The material contains components which can form a layer on the water surface. Avoid contamination of the product to ground-stationary water



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and flowing water and sewage. Inform the authorities if the product has reached waterways or sewers or contaminated soil or plants.

**12.1. Eco toxicity**

Harmful to aquatic life with long lasting effects. May cause toxic effects on activated sludge organisms.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

It is very threatening to water. Do not allow to reach the ground-water stationary and flowing water and sewage even in small amounts. It threatens drinking water if even the smallest quantities flow underground.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste and used packaging must be disposed of in accordance with official regulations. Disposal together with household garbage is prohibited. The instructions of the authorities must be observed. Avoid contamination of the product to surface and ground water, drinking water sources, stationary and flowing water and sewage system.

**Contaminated packaging**

Dispose of as unused product.

**13.2. Safe disposal**

The product must be disposed of in accordance with official regulations. Do not allow product packaging and product to be disposed of with household waste. It is strictly forbidden to mix the product with sewage and groundwater. In such cases, inform the authorities.

**SECTION 14. TRANSPORT INFORMATION**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1 UN Number:** None.

**14.2 UN proper shipping name:** None.

**14.3 Transport hazard class (es):** None.

**14.4 Packing group:** None.

**14.5 Environmental hazards:** None.

**14.6 Special precautions for user:** None.



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## SECTION 15. REGULATORY INFORMATION

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

- National regulations of the Republic of Turkey (T.C.) Ministry of Environment and Urban Planning, dated December 11, 2013, No. 28848, Regulation on the Classification, Labelling and Packaging of substances and mixtures.
- T.C. Ministry of Labour and Social Security, dated June 30, 2012, No. 6331, Occupational Health and Safety Law.
- T.C. Ministry of Labour and Social Security, dated 2 July 2013, No. 28695, Regulations on the Use of Personal Protective Equipment in Workplaces.
- T.C. Ministry of Labour and Social Security, dated August 12, 2013, No. 28 733, Regulation on Health and Safety Measures in Working with Chemical Substances.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been prepared for the preparation and the substances it contains.

## SECTION 16. OTHER INFORMATION

Full text of H statements based on sections 2 and 3:

H318	Causes serious eye damage.
H335	May cause respiratory irritation.

### DESCRIPTIONS:

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS No: Chemical Abstract Service Registry Number
- CLP: Regulation EC 1272/2008
- DNEL: Derived No-Effect Level
- GHS: The international Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IMDG: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: CLP identification number in Annex VI
- LC50: Lethal concentration 50%
- LD50: Lethal Dose 50%
- PNEC: Predicted No Effect Concentration
- REACH: Regulation EC 1907/2006
- RID: Regulation concerning the International Transport of Dangerous Goods by Train
- TWA: Time weighted average exposure limit
- vPvB: Very Persistent and very Bioaccumulative according to REACH Regulation

### Information for users:

This document; It includes the health and safety issues that may be encountered during the transportation, storage and use of the LTY product produced by MYFIX and the measures to be taken against the risks in these matters and does not replace product characteristics and guarantee. This document; contains minimum information for health and safety. It does not include all the health and safety measures that the user may face at the work site, as all risks related to work safety cannot be estimated. In summary, it is not a substitute for the risk assessment process that the user must perform on the job site and / or cannot be used alone for the risk assessment. Construction materials included in this document; It is designed to be used for the purposes described in the technical documentation of MYFIX. For detailed information about our products and up to date technical documents, please go to [www.myfixyapikim.com](http://www.myfixyapikim.com). It is the responsibility of the users to keep track of changes and up-to-date documents.