



MATERIAL SAFETY DATA SHEETS  
(MSDS)

Name of the substance / mixture	Revision date: 20.09.2022
MYFIX K-250 CRYSTALLINE CONCRETE ADMIXTURE	Date of preparation: 25.10.2012

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

Product Identifier:

Trade name : MYFIX K-250 Crystalline concrete admixture

Product code : MY.203, MY.204

General use : The powder mixture is a water impermeable concrete admixture that reacts with the moisture in the concrete and forms a crystal structure that does not dissolve in the capillary cracks and pores, and its effect continues as water comes.

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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)

Skin corrosion/irritation -Category 2	H315
Skin sensitisation-Category 1B	H317
Serious eye damage/eye irritation-Category 1	H318
Serious eye damage/eye irritation-Category 2	H319
Specific target organ toxicity, Single exposure; Respiratory tract irritation-Category 3	H335

### 2.2. GHS Label elements



Signal word:            Danger            Warning            Danger

Hazard statements

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



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Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of soap and water.
P305+P351+P338+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.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with international regulations.

Contains: Sodium carbonate.

2.3. Other hazards

Dust has a risk of explosion.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

SODIUM CARBONATE

CAS number	Concentration %	Classification	EC number
497-19-8	-	Serious eye irritation-2, H319	207-838-8

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

No personal protective equipment is required for first aid. The first aid team should avoid contact with the prepared product.

General advice:

Consult a doctor. Demonstrate this Safety Data Sheet to health personnel.

If inhaled:

In case of inhalation, remove person to fresh air. If breathing has stopped, give artificial respiration. Consult a doctor.

In case of skin contact:

Remove victim from contamination. Remove contaminated clothing. Wash with soap and plenty of water. Consult a doctor.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

If a person's consciousness is present, help him or her drink plenty of water in small portions. Do not induce vomiting. When you feel bad, consult a doctor. Demonstrate this Safety Data Sheet to health personnel.

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

There are no known cases of health damage caused by the product.



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

Mechanical stimulation is possible due to their physical properties. The product may cause lumps in the gastrointestinal tract. Doctor treatment is recommended. Depending on the symptoms, invasive measures may be necessary.

### 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

**HAZARDS CAUSED BY EXPOSURE IN FIRE**

Avoid inhalation of combustion products. The product is flammable and can form explosive mixtures with air if the powders are emitted to air in sufficient concentrations and a source of ignition is present. In case of fire or high temperatures, or in contact with sources of ignition, the fire may be fed with the solids removed from the container.

Hazardous fire products: chlorine hydrate.

Oxides of the following materials: Carbon.

#### 5.3. Advice for firefighters

**GENERAL ADVICE**

Cool the containers with water jets to prevent the decomposition of the product and the occurrence of potentially hazardous substances in health. Always use complete equipment with fire protection. Collect fire extinguishing water which must not be discharged into the sewer. Contaminated water and fire residues used for firefighting must be disposed of in accordance with applicable laws.

**EQUIPMENT**

Self-contained open circuit compressed air breathing apparatus (EN 137), protective clothing for firefighting (EN469), protective gloves for firefighters (EN 659) and firefighter's boots (HO A 29 or A30) as normal equipment for firefighting.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Take safe action in the safety data sheet in order to be able to work safely. Avoid breathing dust. Avoid contact with skin and eyes. Provide adequate ventilation.

#### 6.2. Environmental precautions

In case there are spills or discharges arising out of control, it is necessary to apply IMMEDIATELY to the relevant environmental institution or other appropriate inspection centres.

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

Avoid the release of dust. Fill into dry containers with shovel. Cover the containers and take them elsewhere. Clean the area with water. Collect spillage in the container and deliver in good accordance with local regulations for disposal.

**Additional warnings:**

Remove fire sources.

#### 6.4. Reference to other sections

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



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## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Warnings for safe use:** Avoid dust formation. Combined with water, high spill hazard.

**Advice on fire and explosion hazard:** Prevent dust formation - Danger of dust explosion. Avoid dust accumulation and sweep regularly. Take precautions against electrostatic charging. Keep away from open flames, heat sources and sparks.

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

**Requirements for storage rooms and containers;** Observe dust explosion protection.

### 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

It should be ensured that proper technical precautions are taken and that the personal protective equipment should always be a priority and that the working area should be well ventilated by means of an effective local suction. Personal protective equipment shall bear the CE marking proving their conformity with the applicable standards.

#### HAND PROTECTION

In the event of prolonged contact with the product, it is recommended that hands are protected with penetration-resistant work gloves (reference EN 374 standard). The material of the work gloves should be selected according to the process of use and the products that may occur. It is also reminded that latex gloves may cause sensitization.

**Recommended gloves:** Protective gloves made of rubber.

#### SKIN PROTECTION

Wear long-sleeved work clothes and safety shoes for Category II professional use (reference 89/686 / EEC Directive and EN ISO 20344 standard). After removing protective clothing, wash with soap and water.

#### EYE PROTECTION

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

#### RESPIRATORY PROTECTION

It is recommended to use a P type filter face mask (reference EN 149 standard), whose class (1, 2 or 3) and actual requirement will be determined according to the outcome of the risk assessment.



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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: Powder
Colour	: White
Odour	: Odourless
Odour threshold	: It is not determined because it is odourless
pH value	: No data available
Melting point / Freezing point	: No data available
Initial boiling point/range	: Not applicable
Boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not determined due to lack of liquid
Flammability of solids and gases	: No data available
Lower flammability limit	: No data available
Upper flammability limit	: No data available
Lower explosion limit	: Not determined due to lack of liquid
Upper explosion limit	: Not determined due to lack of liquid
Vapour pressure	: Not determined due to lack of liquid
Vapour density	: Not determined due to lack of liquid
Density	: No data available
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	: Not determined due to lack of liquid
Explosive properties	: No data available
Flammable properties	: Flammable

### 9.2. Other information

No data available.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

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

Avoid excessive heat, water and moisture for a long time.

### 10.5. Incompatible materials

Strong acids, aluminium, alkaline earth metals, organic nitro compounds, fluorine, alkaline metals, non-metal oxides / heat, sulphuric acid.



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### 10.6. Hazardous decomposition products

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

- Carbon oxide.
- Sodium oxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### SODIUM CARBONATE:

##### Acute toxicity

LD50 Oral - Rat - male and female - 2,800 mg/kg

LC50 Inhalation - Rat - 2 h - 5.750 mg/L

##### Skin corrosion / irritation:

Skin - Rabbit

Result: No skin irritation - 4 h

##### Serious eye damage / eye irritation:

Eyes - Rabbit

Result: Eye irritation

**Respiratory or skin sensitization:** No data available.

**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.

Burning sensation, cough, wheezing, shortness of breath, headache, nausea, vomiting. As far as we know, chemical, physical and toxicological properties have not been fully investigated.

## 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-water, stationary 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

Toxicity to fish

LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Supiresi) - 265 mg/l - 48h

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.



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#### 12.4. Mobility in soil

No data available.

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

#### 12.6. Other adverse effects

Harmful to aquatic life.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

If possible, use again. The residues of the product must be regarded as hazardous special waste. The hazardousness of wastes containing this product in part shall be assessed in accordance with the provisions of the applicable law. Disposal should be made by handing over to a company that has authority in waste management in accordance with national and potential local laws. Do not dispose of the product on ground, sewers and waterways. Users must follow and comply with current legislation in this respect.

#### Contaminated packaging

Contaminated packaging should be sent for recovery or disposal in accordance with national laws on waste management.

### 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.

### 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.



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**SECTION 16. OTHER INFORMATION**

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

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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 **K-250** 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.