



MATERIAL SAFETY DATA SHEETS
(MSDS)

| | |
|--|---------------------------------|
| Name of the substance / mixture | Revision date: 18.08.2022 |
| MYFIX K-24 CRYSTALLINE WATER INSULATION MORTAR | Date of preparation: 01.08.2012 |

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

Product Identifier:

Trade name : MYFIX K-24 Crystalline water insulation mortar

Product code : MY.147.

General use : Cement based, single-component, crystalline water insulation mortar that reacts to concrete to provide water impermeability and can be applied to both positive and negative water pressure.

Company : YILDIZ YAPI KİMYASALLARI SAN. ve TİC. LTD. ŞTİ.
İstanbul Mermerciler Küçük San. Sitesi 18. Cad. No:22
Köseler Köyü-Dilovası / KOCAELİ / TURKEY
Tel: 0262 728 11 10 / Fax: 0262 728 12 15

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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)

| | |
|--|------|
| 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: Warning

Hazard statements

| | |
|------|--------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |



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Precautionary statements

| | |
|---------------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| 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. |
| P333+P313 | IF SKIN irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | IF eye irritation persists: Get medical advice/attention. |
| P363 | Wash contaminated clothing 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: Portland cement.

2.3. Other hazards

In case of contact with skin; may cause irritation, eczema or burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

PORTLAND CEMENT

| CAS number | Concentration % | Classification | EC number |
|------------|-----------------|---|-----------|
| 65997-15-1 | - | Skin irritation 2, H315 Serious eye damage 1, H318 Skin sensitisation 1B, H317 STOT, Single exposure; Respiratory tract irritation 3, H335 | 266-043-4 |

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.

In case of eye contact:

Do not rub the eye to avoid possible corneal damage. If available, remove contact lenses. Tilt your head towards the damaged eye, rinse with plenty of water for at least 20 minutes until the particles under your eyelid move away.

In case of skin contact:

In case of contact with the product, wash with plenty of water. Infected clothes, shoes, glasses etc. remove and clean again before use. In case of irritation or burn, medical attention is required.

If inhaled:

Inhalation may irritate the moist mucous membrane of the nose, throat and upper respiratory tract. Remove the person to fresh air. Remove dust from the throat and nose. If irritation occurs, cough and other symptoms are observed, consult a doctor.

If swallowed:

Do not induce vomiting. If the person is conscious, rinse mouth with water and drink plenty of water. Call the poison centre or doctor immediately.

To avoid exposure to skin and eye contact, please follow the personal protective measures specified in Section 8 to prevent inhalation of dust.



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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

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.

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 firefighters' 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

In the case of vapours or dusts spread out into the air, use suitable protection for the respiratory tract. This information is valid for both staff and emergency response. Wear the protective equipment described in Section 8 and follow the safe handling and transport recommendations as defined in Section 7.

6.2. Environmental precautions

Prevent product from entering into sewers, surface waters and groundwater.

6.3. Methods and material for containment and cleaning up

Limit your surroundings with earth or inert substance. Collect a large portion of the substance and remove the residue with water jets. Disposal of contaminated material shall be carried out in accordance with the provisions of Section 13.

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

Handle the product after reading all other sections of this Safety Data Sheet. Prevent the product from spreading to the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in labelled containers. Keep containers away from any inappropriate materials by checking the instructions in section 10.

7.3. Specific end use(s)

No data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure control parameters

OCCUPATIONAL EXPOSURE LIMITS:

Portland cement

Total Dust Quantity (TWA/ZAOD): 15 mg/m³

Inhalable Powder Amount (TWA/ZAOD): 5 mg/m³

TWA: Measured or calculated time-weighted average for the 8-hour set reference period

TWA: Time-weighted average

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.

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 | : Grey |
| 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 | : No data available |
| Boiling range | : No data available |
| Flash point | : No data available |
| 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 | : 2000±100 kg/m ³ |
| 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

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

Humidity.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

No data available.



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SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

In the absence of experimental toxicological data on the product, the potential health hazards of the product have been assessed according to the criteria envisaged in the normative context referenced for classification based on the material properties covered. Therefore, in order to assess the toxicological effects caused by exposure to the product, consider the concentrations of the single substances specified in Section 3.

Acute effects: Contact with the skin causes sensitisation (contact dermatitis). Dermatitis occurs after skin inflammation that begins in the skin areas that are repeatedly in contact with the sensitising agent. Skin injuries may include erythema, oedema, papules, blisters, boils, crusts, slits, and sweating, which vary according to the affected areas and stages of the disease. Erythema, oedema and capillary bleeding are common at severe stage. In chronic stages, crust dryness, crevices and thickening of the skin are common.

Portland cement

LD50 (Oral, rat) > 2000 mg/kg

LD50 (Dermal, rabbit) > 2000 mg/kg

Inhale:

Inhalation of vapours may cause irritation of the lower and upper respiratory tract by coughing and breathing difficulty. Even higher concentrations can cause pulmonary oedema.

Swallow:

Swallowing may cause health disorders including burning, nausea and vomiting and abdominal pain.

Skin contact:

Contact with skin irritates erythema, oedema, dryness and flaking of skin.

Eye contact:

May cause slight eye irritation. Redness. Prolonged contact may cause redness and / or aging of the eyes. The product can cause serious damage to the eye and the corneal opacity, iris layer damage may cause irreversible coloration of the eye.

Way of exposure:

Ingestion, aspiration, skin or eye contact.

Target organs:

There are no known specific target organs.

SECTION 12. ECOLOGICAL INFORMATION

Apply good working practices without throwing the product into the environment. Inform the competent authorities if the product has reached waterways or sewers or contaminated soil or plants.

12.1. Eco toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.



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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

No data available.

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:

| | |
|------|--------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| 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-24** 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. It is the responsibility of the users to keep track of changes and up-to-date documents.