



# MATERIAL SAFETY DATA SHEET

## KAROFIX MULTIFLEX-COMPONENT A

Revision Date: 01.02.2019

Revision No:02

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

#### **1.1. Product Identifier**

**Product Name:** Karofix Multiflex-Component A

**Intended Use:** Cement-Acrylic Based Tile Adhesive

#### **1.2. Details of the supplier of the safety data sheet**

**Company Name:** Entegre Harç San ve Tic. A. Ş.

**Adress:** Hüseyinli Köyü Beykoz Cad. No:222/4 34799 Çekmeköy / İstanbul

**Phone:** + 90 216 434 50 96

**Fax:** + 90 216 434 63 89

**E-Mail:** [info@entegreharc.com.tr](mailto:info@entegreharc.com.tr)

#### **1.3. Emergency Phone Number**

**Company Number** + 90 216 434 50 96

### **2. HAZARD IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

##### **2.1.1. Hazard classes and categories**

- Skin Irrit. 2 – H 315

- Skin Sens. 1 – H317

- Eye Dam. 2 – H318

- STOT SE 3 – H335

##### **2.1.2. Hazard Statements**

- H315 Causes skin irritation.

- H317 May cause an allergic skin reaction.

- H318 Causes serious eye damage.

- H335 May cause respiratory irritation.

##### **2.1.3. Precautionary Statements**

- P102 Keep out of reach of children.

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

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

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

- P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

- P333+P313+P312 Harmful in contact with skin. If skin irritation or rash occurs: Get medical advice / attention.



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

### 2.2. Label Elements

#### 2.2.1. Pictogram



GHS 05



GHS 07

#### 2.2.2. Signal Word

Danger

#### 2.2.3. Hazardous Ingredients For Labeling

Portland Cement

### 2.3. Other Hazards

All of the threads with the hazard statements are given in Section 16.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Compound	Einecs No	Cas No	Concent %	Classification
Portland cement	266-043-4	65997-15-1	25 - 50	- Skin Irrit. 2 – H 315 - Skin Sens. 1 – H317 - Eye Dam. 2 – H318 - STOT SE 3 – H335

\* See section 16 for the whole of this section of the H-phrases

### 4. FIRST AID MEASURES

#### 4.1. General Recommendations

Consult a physician. Show this safety data sheet to the physician.

#### 4.2. Inhalation

Move to the fresh air. Give artificial respiration if necessary. If necessary seek medical advice.

#### 4.3. Eye Contact

Immediately rinse with water for a prolonged period whilst keeping the eyes wide open.

#### 4.4. Skin Contact

Immediately rinse with plenty of water.



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### 4.5. Ingestion

Rinse mouth. Never give an unconscious person anything to drink.

## 5. FIREFIGHTING MEASURES

### 5.1 General Information

The product is not spontaneously flammable show feature.

### 5.2. Suitable Extinguishing Media

Use sand, alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>) or water-spray.

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

Carbon dioxide

### 5.4. Advice for firefighting

In case of fire, wear suitable respiratory equipment with positive air supply.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions,

Do not breathe dust. Personal protective equipments are used.

### 6.2. Environmental precautions

Prevent leaks and spills. Do not discharge into the drains. Discharge into the environment must be avoided.

### 6.3. Methodes for celaning up

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

## 7. HANDLING AND STORAGE

### 7.1. Handling

Earth the equipment used to transfer the product.

Measures: Avoid the formation or spread of dust in the atmosphere.

### 7.2. Storage

Technical measures: Does not require any specific or particular technical measures.

Storage conditions:

Recommended: To guarantee the quality and properties of the product keep: the bags tightly closed. Protected from humidity and bad weather conditions.

Packaging - Paper bag lined with a plastic film.

PPE type of bags

Packaging materials:



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Recommended: PPE bags. Paper.

Not suitable: Materials, which are not water-resistant.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Exposure Limits

Substance or Compound	Cas No	Value	Limits	Source
Portland Cement	65997-15-1	TWA (8 hours)	5 mg/m <sup>3</sup>	DFG

#### 8.2 Personal Protective Equipment

Foodstuffs, Keep away from drink and animal feed. Contaminated, remove immediately all contaminated clothing, reuse of wash. Wash your hands after work and the work of breaks. Gloves must be inspected regularly and prior to each use.

#### Respiratory -related precautionary measures

In cases where ventilation is insufficient to use respiratory protective equipment should be considered.

#### Hand protection

Gloves should be selected in accordance with a standard pharmaceutically acceptable carrier.

#### Eye protection

Use chemical safety glasses with side shields

#### Body protection

Use protective clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

Color: Grey, White

Odour: No odour

pH: ~12

Flammability: Not applicable

Solubility in water: Insoluble in water, it takes the mortar consistency.

### 10. STABILITY AND REACTIVITY

#### 10.1. Stability

Stable at ambient temperature and under normal conditions of use.

#### 10.2. Hazardous Reactions

Potentially harmful gases and vapors may form in the event of thermal decomposition or fire.



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### **11. TOXICOLOGICAL INFORMATION**

#### **11.1. Corrosive and Irritant Effect**

##### **Cement;**

- LD50 Dermal: > 2.000 mg/kg (Rabbit)

Causes skin irritation

Causes serious eye damage.

May cause respiratory irritation.

#### **11.2. Acute Toxicity**

##### **Hydroxyethyl Methyl Ether**

- LD50 Oral: > 2.000 mg/kg (Rate)

#### **11.3. Toxicological Warnings:**

Product was not tested. Toxicological classification of content information is made based on information available and obtained.

### **12. ECOLOGICAL INFORMATION**

#### **12.1. Ecotoxicity**

##### **Hydroxyethyl Methyl Ether**

- EC50 (Bacteria): > 1000 mg/l
- EC50 (Daphnia, 48 hours): > 100 mg/l
- EC50 (Scenedesmus suspicatus, 72 hours): > 100 mg/l
- LC50 (Danio, 96 hours): > 500 mg/l

#### **12.2 Persistence and Biodegradability**

It is invalid.

### **13. DISPOSAL CONSIDERATIONS**

#### **WASTE FROM RESIDUES:**

Destruction/Disposal: Solid waste: Incinerate.

Liquid waste: Decant and separate solid material prior to disposal. Dispose of solid residues at a licensed site.

Small quantities: allow the product to dry then incinerate solid residues at an approved site.

#### **CONTAMINATED PACKAGING:**

Decontamination/cleaning: Empty the packaging completely prior to disposal.

Destruction/Disposal: Incinerate bags and flexible containers.

NOTE: The user's attention is drawn to the possible existence of local regulations regarding disposal.



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### **14. TRANSPORT INFORMATION**

Air, Sea Rail/ Road: NOT restricted.

### **15. REGULATORY INFORMATION**

National and international regulations must be complied with .  
Refer to section 2 of this document for labeling information.

### **16. OTHER INFORMATION**

#### **16.1. Abbreviations**

H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Skin Irrit.	Skin Irritation
Skin Sens.	Skin Sensitization
Eye Dam.	Eye Damage
STOT SE	Specific target organ toxicity – Single Exposure

#### **16.2. Additional Info**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.



# MATERIAL SAFETY DATA SHEET

## KAROFİX MULTİ FLEX – COMPONENT B

Revision Date: 01.06.2016

Revision No:02

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

#### **1.1. Product Identifier**

**Product Name:** Karofix Multi Flex – Component B  
**Intended Use:** Cement-Acrylic Based Tile Adhesive

#### **1.2. Details of the supplier of the safety data sheet**

**Company Name:** Entegre Harç San ve Tic. A. Ş.  
**Address:** Hüseyinli Köyü Beykoz Cad. No:222/4 34799 Çekmeköy / İstanbul  
**Phone:** + 90 216 434 50 96  
**Fax:** + 90 216 434 63 89  
**E-Mail:** [info@entegreharc.com.tr](mailto:info@entegreharc.com.tr)

#### **1.3. Emergency Phone Number**

**Company Number** + 90 216 434 50 96

### **2. HAZARD IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

It does not have health and physical damage.

It is not dangerous for the environment. However, it is not appropriate to dispose of the product packaging in the sewer system, water discharge systems and the environment.

#### **2.2. Label Elements**

It is out of scope

#### **2.3. Other Hazards**

All of the threads with the hazard statements are given in Section 16.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1. Materials**

No dangerous component

#### **3.2. Mixtures**

Acrylic resin dispersion

### **4. FIRST AID MEASURES**

#### **4.1. General Recommendations**

Consult a physician. Show this safety data sheet to the physician.



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## KAROFIX MULTI FLEX – COMPONENT B

Revision Date: 01.06.2016

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### 4.2. Inhalation

Move to the fresh air. Give artificial respiration if necessary. If necessary seek medical advice.

### 4.3. Eye Contact

Immediately rinse with water for a prolonged period whilst keeping the eyes wide open.

### 4.4. Skin Contact

Immediately rinse with plenty of water.

### 4.5. Ingestion

Rinse mouth. Never give an unconscious person anything to drink.

## 5. FIREFIGHTING MEASURES

### 5.1 General Information

The product is not spontaneously flammable show feature.

### 5.2. Suitable Extinguishing Media

Use sand, alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>) or water-spray.

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

Carbon dioxide

### 5.4. Advice for firefighting

In case of fire, wear suitable respiratory equipment with positive air supply.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions,

Personal protective equipments are used.

### 6.2. Environmental precautions

Prevent leaks and spills. Do not discharge into the drains. Discharge into the environment must be avoided.

### 6.3. Methodes for celaning up

Absorb the liquid binder with dust (sand, diatomite, acid binders, universal binders, sawdust).

Collect in the appropriate container for large quantities of debris. If not used, dispose of it.

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

## 7. HANDLING AND STORAGE

### 7.1. Handling

Avoid contact with eyes and skin.





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### 7.2. Storage

The product must be protected from moisture and bad weather to protect its qualities and properties.

Protect from freezing. Protect from the sun.

Packaging should be stored tightly closed in a dry and well-ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Exposure Limits

STEL / TWA: Not detected

#### 8.2 Personal Protective Equipment

Foodstuffs, Keep away from drink and animal feed. Contaminated, remove immediately all contaminated clothing, reuse of wash. Wash your hands after work and the work of breaks. Gloves must be inspected regularly and prior to each use.

#### Respiratory -related precautionary measures

In cases where ventilation is insufficient to use respiratory protective equipment should be considered.

#### Hand protection

Gloves should be selected in accordance with a standard pharmaceutically acceptable carrier.

#### Eye protection

Use chemical safety glasses with side shields

#### Body protection

Use protective clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Liquid
<u>Colour:</u>	White
<u>Odour:</u>	-
<u>Flammability:</u>	Not applicable
<u>Solubility in water:</u>	Soluble in water
<u>Density (20 °C):</u>	~0,95 g/m <sup>3</sup>



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### **10. STABILITY AND REACTIVITY**

#### **10.1. Stability**

Stable at ambient temperature and under normal conditions of use.

#### **10.2. Hazardous Reactions**

If used according to the technical specification, no deterioration will occur.

There is no known degradation product.

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1. Information on Toxic Effects**

The product is not classified in accordance with the method of calculation of the General EC Classification Guidelines for Preparations as issued in the latest version.

When used in accordance with specifications, the product does not have any harmful effects on the basis of our experience and the information provided to us.

There is no known sensitizing effect.

#### **11.2 Impact on Health:**

##### **Styrene – Acrylic Acid Copolymer**

LD50 (Acute Oral): > 5.000 mg/kg (Rat)

In case of inhalation, there is no irritant effect.

No irritant effect on skin. In the eyes, slight irritation is possible.

Sensitivity studies have not been performed on the mixture. According to the compositions, it is unlikely that the mixture is susceptible to sensitization.

#### **11.3. Toxicological Warnings:**

Product was not tested. Toxicological classification of content information is made based on information available and obtained.

### **12. ECOLOGICAL INFORMATION**

#### **12.1. Ecotoxicity**

##### **Styrene – Acrylic Acid Copolymer**

LC50 (48 Hours): > 500 mg/lit (Fish)

Prevent the product from reaching water sources, sewage systems or sewage systems.

No ecological work is available. So far, no harmful effects on human and environment have been observed. When used as intended, does not have any environmental poisoning effect according to available information.



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### 12.2 Persistence and Biodegradability

It is invalid.

### 13. DISPOSAL CONSIDERATIONS

#### WASTE FROM RESIDUES:

Destruction/Disposal: Solid waste: Incinerate.

Liquid waste: Decant and separate solid material prior to disposal. Dispose of solid residues at a licensed site.

Small quantities: allow the product to dry then incinerate solid residues at an approved site.

#### CONTAMINATED PACKAGING:

Decontamination/cleaning: Empty the packaging completely prior to disposal.

Destruction/Disposal: Incinerate bags and flexible containers.

NOTE: The user's attention is drawn to the possible existence of local regulations regarding disposal.

### 14. TRANSPORT INFORMATION

Air, Sea, Rail/ Road: NOT restricted.

### 15. REGULATORY INFORMATION

National and international regulations must be complied with .

Refer to section 2 of this document for labeling information.

### 16. OTHER INFORMATION

#### 16.1 Additional Info

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