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## SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

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

#### 1.1 Product identifier

- Product Name: Keyfix E - Hardener
- Product Part Number: C12/03/04/015Hjo

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Hardener part of Epoxy resin cartridge system for anchoring

#### 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Ayla for Building Materials Industry & Trade
- Address of Supplier: Al-Karadeh, Arsat Al-Hindia  
Baghdad
- Telephone: + 964 790 1488 730
- Email: info.iraq@dcp-int.com

#### 1.4 Emergency telephone number

- Emergency Telephone: + 964 790 1488 730 (available during work hours)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- CLP: Resp. Sens. 1, Skin Sens. 1, Skin Corr. 1B, Aquatic Chronic 3, Eye Dam. 1, Repr. 2

#### 2.2 Label elements



- Signal Word: Danger
- Hazard statements
  - H314 - Causes severe skin burns and eye damage.
  - H317 - May cause an allergic skin reaction.
  - H318 - Causes serious eye damage.
  - H361 - Suspected of damaging fertility or the unborn child.
  - H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements
  - P201 - Obtain special instructions before use.

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## SECTION 2: Hazards identification (....)

- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P273 - Avoid release to the environment.
- P264 - Wash thoroughly after handling
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P363 - Wash contaminated clothing before reuse.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P391 - Collect spillage.
- P501 - Dispose of contents/container to an authorised waste collection point

### 2.3 Other hazards

- Contains: 2-piperazin-1-ylethylamine  
Phenol, methylstyrenated  
Phenol, styrenated

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

- Phenol, styrenated
  - CAS Number: 61788-44-1
  - EC Number: 262-975-0
  - Concentration: 15 - 35%
  - Categories: Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 2
  - Symbols: GHS07, GHS09
  - H Statements: H315, H319, H317, H411
- 2-piperazin-1-ylethylamine
  - CAS Number: 140-31-8
  - EC Number: 205-411-0
  - Concentration: 5 - 15%
  - Categories: Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3
  - Symbols: GHS05, GHS07
  - H Statements: H312, H302, H314, H317, H412
- 2,4,6-tris(dimethylaminomethyl)phenol
  - CAS Number: 90-72-2

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## SECTION 3: Composition/information on ingredients (....)

EC Number: 202-013-9  
 Concentration: 1 - 10%  
 Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2  
 Symbols: GHS07  
 H Statements: H302, H319, H315

- Bis[[dimethylamino)methyl]phenol

CAS Number: 71074-89-0  
 EC Number: 275-162-0  
 Concentration: 1 - 5%  
 Categories: Skin Corr. 1B  
 Symbols: GHS05  
 H Statements: H314

- Phenol, methylstyrenated

CAS Number: 68512-30-1  
 EC Number: 270-966-8  
 Concentration: 1 - 5%  
 Categories: Acute Tox. 4, Skin Irrit. 2, Resp. Sens. 1B, Aquatic Chronic 3  
 Symbols: GHS07  
 H Statements: H315, H317, H412, H302

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Take off immediately all contaminated clothing.
- Inhalation
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - Seek medical attention if ill effects occur
- Contact with skin
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water
- Contact with eyes
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Get medical advice/attention.
- Ingestion
  - Do NOT induce vomiting.

**SECTION 4: First aid measures (....)**

- If swallowed, rinse mouth with water (only if the person is conscious)
- Give water or milk to drink
- Never give anything by mouth to an unconscious person
- Get immediate medical advice/attention.

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

- No information available

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

- No information available
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**SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

- Water fog or fine spray, CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- Don not use water with a full water jet.

## 5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire
- Nitrogen and carbon oxides may be formed

## 5.3 Advice for firefighters

- Do not allow run-off water to enter sewers and water sources.
  - Wear self contained breathing apparatus and full protective clothing
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - In case of fire: Evacuate area.
  - May give off noxious and toxic fumes in a fire
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**SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Wear protective clothing as per section 8
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Evacuate the area and keep personnel upwind
- Wash thoroughly after dealing with spillage
- Avoid contact with skin and eyes

## 6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- Prevent further spillage if safe

## 6.3 Methods and material for containment and cleaning up

**SECTION 6: Accidental release measures (....)**

- Avoid release to the environment.
- Collect as much as possible in clean container for reuse or disposal
- Soak up with inert absorbent
- Place in appropriate container
- Wear suitable protective clothing, eye/face protection and gloves
- Ensure adequate ventilation

## 6.4 Reference to other sections

- See Section 8, 13
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**SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

- Adopt best Manual Handling considerations when handling, carrying and dispensing.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation
- Keep away from food, drink and animal foodstuffs
- Use good personal hygiene practices
- Store in original, correctly labelled and tightly closed containers
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid release to the environment.
- In case of inadequate ventilation wear respiratory protection.
- Wash contaminated clothing before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

- Store in original, correctly labelled and tightly closed containers
- Store in a dry environment away from direct sunlight.
- Store in a cool, dry, well ventilated area.
- Keep away from food, drink and animal feedingstuffs
- Store locked up.

## 7.3 Specific end use(s)

- No information available
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**SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

- No information available

## 8.2 Exposure controls

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## SECTION 8: Exposure controls/personal protection (....)



- Ensure adequate ventilation
- Avoid contact with skin and eyes
- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- In case of inadequate ventilation wear respiratory protection.
- Keep away from food, drink and animal feedingstuffs
- Wash thoroughly after handling.
- Wear suitable protective clothing, eye/face protection and gloves

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Red, paste
- Odour: Characteristic odour
- Boiling Point/Range: No information available
- Flashpoint: >93°C
- Specific Gravity: 1.55 ± 0.02
- Solubility in water: Immiscible with water

### 9.2 Other information

- No information available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- No special precautions are required for this product

### 10.5 Incompatible materials

- Strong oxidising agents
- Incompatible with acids and alkalis

### 10.6 Hazardous decomposition products

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## SECTION 10: Stability and reactivity (....)

- Combustion may emit toxic fumes
  - Decomposition products may include toxic fumes
  - Decomposition products may include nitrogen and carbon oxides
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Skin corrosion/irritation  
Causes severe skin burns and eye damage.  
Serious eye damage/irritation  
Causes serious eye damage.  
Respiratory or skin sensitisation  
May cause an allergic skin reaction.

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## SECTION 12: Ecological information

### 12.1 Toxicity

- No information available

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumulative potential

- No information available

### 12.4 Mobility in soil

- No information available

### 12.5 Results of PBT and vPvB assessment

- No information available

### 12.6 Other adverse effects

- Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Avoid release to the environment. Refer to special instructions/Safety data sheets
  - Disposal should be in accordance with local, state or national legislation
  - Dispose of contents/container to an authorised waste collection point.
  - Do not empty into drains - dispose of this material and container in a safe way
- Small quantities may be reacted with a suitable quantity of epoxy resin, allowed to cure and disposed of as low hazard waste. Larger quantities should be disposed of as hazardous waste via a licensed waste operator.
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**SECTION 14: Transport information**

## 14.1 Air (ICAO/IATA)

- ICAO UN No.: 2735
- Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.
- ICAO Hazard Class: 8
- ICAO Packing Group: III

## 14.2 Road/Rail (ADR/RID)

- ADR UN No.: 2735
- Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.
- ADR Packing Group: Not regulated as a dangerous good

## 14.3 Sea (IMDG)

- IMDG UN No.: 2735
- Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.
- IMDG Hazard Class: 8
- IMDG Pack Group.: III

## 14.4 Environmental hazards

- No information available

## 14.5 Special precautions for user

- No information available

## 14.6 Transport in bulk according to Annex II of Marpol and the IBC Code

- No information available

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**SECTION 15: Regulatory information**

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

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

## 15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

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**SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.





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## **SECTION 16: Other information (....)**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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