

Created: 15 Oct 2025

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

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

1.1 Product identifier

- Product Name: Keyfix AE15 - Part A
- Other means of Identification
- UFI: -
- Product Part Number: C12/03/04/036 - A

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

- Use of the substance/mixture: Base component of Epoxy acrylate anchoring system in cracked and uncracked concrete under seismic conditions

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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3

2.2 Label elements



- Signal Word: Warning

Hazard statements

- H319 - Causes serious eye irritation.
- H317 - May cause an allergic skin reaction.

SECTION 2: Hazards identification (....)

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

P501 - Dispose of contents/container to an authorised waste collection point

P273 - Avoid release to the environment.

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.

P362+P364 - Take off contaminated clothing and wash it before reuse.

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

2.3 Other hazards

- Contains: Contains Triphenylphosphine, Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-.
- Contains: Methacrylic acid, monoester with propane-1,2-diol

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Methacrylic acid, monoester with propane-1,2-diol

CAS Number: 27813-02-1

EC Number: 248-666-3

Concentration: 5 - 8%

Categories: Eye Irrit. 2, Skin Sens. 1

Specific Concentration Limits: No information available

M factor: No information available

Acute toxicity estimate: Not available

Symbols: GHS07

H Statements: H317, H319

REACH Registration Number: 01-2119490226-37-xxxx

Vinyltoluene

CAS Number: 25013-15-4

EC Number: 246-562-2

Concentration: 5 - 8%

Categories: Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 2, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2

Specific Concentration Limits: No information available

M factor: No information available

Acute toxicity estimate: LC50 inhalation dust: 1.5 mg/l

Symbols: GHS07, GHS02, GHS09, GHS08

H Statements: H332, H400, H411, H304, H319, H226, H315

REACH Registration Number: 01-2119622074-50-xxxx

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

Triphenylphosphine

CAS Number: 603-35-0
 EC Number: 210-036-0
 Concentration: 0.1 - 0.5%
 Categories: Acute Tox. 4, Skin Sens. 1B, STOT RE 2
 Specific Concentration Limits: No information available
 M factor: No information available
 Acute toxicity estimate: Not available
 Symbols: GHS08, GHS07
 H Statements: H302, H317, H373
 REACH Registration Number: 01-2119475464-32-xxxx

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-.

CAS Number: -
 EC Number: 911-490-9
 Concentration: 0.1 - 0.5%
 Categories: Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1
 Specific Concentration Limits: No information available
 M factor: No information available
 Acute toxicity estimate: Not available
 Symbols: GHS05, GHS07
 H Statements: H302, H412, H318, H315, H317

SECTION 4: First aid measures

4.1 Description of first aid measures

- If you feel unwell, seek medical advice (show the label where possible)

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Get medical advice/attention if you feel unwell.

Contact with skin

May cause an allergic skin reaction.
 Wash affected area with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention.

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Seek immediate medical attention

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

Continue flushing with water until medical help arrives

Ingestion

Do NOT induce vomiting.

If vomiting occurs turn patient on side

Keep warm and at rest

Rinse mouth with water (do not swallow)

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

Irritating to eyes

Contact with skin

May cause an allergic skin reaction.

Inhalation

No specific symptoms known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

- In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
- Do not use water jets

5.2 Special hazards arising from the substance or mixture

- Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters

- Wear self contained breathing apparatus and full protective clothing
- Consider evacuation
- Shut off all ignition sources
- Do not allow run-off water to enter sewers and water sources.
- Keep container(s) exposed to fire cool, by spraying with water

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear suitable protective clothing

6.2 Environmental precautions

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

- Do not allow to enter public sewers and watercourses
- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Sweep or shovel-up spillage and remove to a safe place

6.4 Reference to other sections

- For personal protection see section 8
-

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Eyewash bottles should be available
- Do not wear contact lenses when working with this material
- Dispose of contents/container to an authorised waste collection point
- Adopt best Manual Handling considerations when handling, carrying and dispensing.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Shut off all ignition sources
- Take precautionary measures against static discharges

7.2 Conditions for safe storage, including any incompatibilities

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not store above 25 °C
- Store above 5 °C

7.3 Specific end use(s)

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

8.1 Control parameters

titanium dioxide

WEL: 4 mg/m³ (8h)

Methacrylic acid, monoester with propane-1,2-diol

DNELs (workers):

Long exposure systemic effects - inhalation: 14.7 mg/m³

Long exposure systemic effects - Dermal: 4.2 mg/kg

DNELs (General population):

Long exposure systemic effects - Oral: 2.5 mg/kg

Long exposure systemic effects - Dermal: 2.5 mg/kg

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

Long exposure systemic effects - Inhalation: 8.8 mg/m³

PNECs;

STP: 10 mg/l

Soil: 0.727 mg/kg

Intermittent: 0.972 mg/l

Fresh water: 0.904 mg/l

Marine water: 0.904 mg/l

Sediment (Fresh water): 6.28 mg/kg

Sediment (Marine water): 6.28 mg/kg

Triphenylphosphine

DNELs (Workers):

Long exposure systemic effects - Dermal: 0.07 mg/kg

Long exposure systemic effects - Inhalation: 0.5 mg/m³

DNELs (General population):

Long exposure systemic effects - Oral: 0.01 mg/kg

8.2 Exposure controls



- Wear respiratory protection.
- Wear nitrile gloves
- Wear goggles giving complete eye protection
- Eyewash bottles should be available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|------------------------------|--------------------------|
| - Physical state: | Cream_paste |
| - Colour: | Grey |
| - Odour: | Aromatic odour |
| - Melting point/Range: | Not available |
| - Boiling Point/Range: | Not applicable |
| - Flammability: | No information available |
| - Lower explosive limit: | NA% (in air) |
| - Upper explosive limit: | NA% (in air) |
| - Flashpoint: | Not applicable |
| - Autoignition Temperature: | 355°C |
| - Decomposition temperature: | NA |
| - pH: | 7 (at 10 %) |
| - Kinematic viscosity: | NA mm ² /s |
| - Solubility: | NA |

SECTION 9: Physical and chemical properties (....)

- Vapour Pressure: Not available
- Density: 1.65 (relative)
- Vapour Density: Not available
- Particle characteristics: NA

9.2 Other information

9.2.1 Information with Regard to Physical Hazard Classes

No Information Available

9.2.2 Other Safety Characteristics

No Information Available

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

- Avoid exposure to high temperature or direct sunlight.

10.5 Incompatible materials

- Strong acids.
- Strong oxidising agents
- Incompatible with acids and alkalis

10.6 Hazardous decomposition products

- Decomposition products may include carbon oxides
-

SECTION 11: Toxicological information

11.1 Information on toxicological effects

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A-Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B-Inhalation (acute effect):

SECTION 11: Toxicological information (....)

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C-Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D-CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: Vinyltoluene (3); Titanium dioxide (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E-Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F-Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G-Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H-Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3

Specific toxicology information on the substances:

CAS: 27813-02-1

LD50 oral 11200 mg/kg

LD50 dermal >5000 mg/kg

SECTION 11: Toxicological information (....)

LC50 inhalation >20 mg/L

CAS: 25013-15-4

LD50 oral >5000 mg/kg

LD50 dermal >5000 mg/kg

LC50 inhalation 1.5 mg/L (ATEi)

CAS: 603-35-0

LD50 oral 700 mg/kg

LD50 dermal >5000 mg/kg

LC50 inhalation >5 mg/L

EC: 911-490-9

LD50 oral: 619 mg/kg

LD50 dermal: >2000 mg/kg

LC50 inhalation vapour: > 20 mg/l

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No Information Available

11.2.2 Information on other hazards

No Information Available

SECTION 12: Ecological information

12.1 Toxicity

- No information available

Acute toxicity:

CAS: 27813-02-1

LC50 833 mg/L (96 h) (*Scophthalmus maximus*) (Fish)

EC50 210 mg/L (48 h) (*Acartia tonsa*) (Crustacean)

CAS: 25013-15-4

LC50 7.6 mg/L (96 h) (*Salmo gairdneri*) (Fish)

EC50 1.3 mg/L (48 h) (*Daphnia magna*) (Crustacean)

EC50 2.6 mg/L (72 h) (*Selenastrum capricornutum*) (Algae)

EC: 911-490-9:

LC50: 110 mg/l (96h) (*Cyprinus carpio*) (Fish)

EC50: 48 mg/l (48h) (*daphnia magna*) (Crustacean)

EC50: 110 mg/l (72h) (*Pseudokirchneriella capricornutum*)

Chronic toxicity:

CAS: 27813-02-1

NOEC 45.2 mg/L (*Daphnia magna*) (Crustacean)

CAS: 25013-15-4

NOEC 1.16 mg/L (Fish)

NOEC 0.32 mg/L (*Daphnia magna*) (Crustacean)

12.2 Persistence and degradability

SECTION 12: Ecological information (....)

- No information available

Substance-specific information:

CAS: 27813-02-1

% Biodegradable: 81 %

EC: 911-490-9

Concentration: 18 mg/l

Period: 28 days

% Biodegradable: 1.5%

12.3 Bioaccumulative potential

- No information available

Substance-specific information:

CAS: 27813-02-1

BCF: 3

Pow Log: 0.97

Potential: Low

CAS: 25013-15-4

BCF: 5

Pow Log: 3.44

Potential: Low

EC: 911-94-9

Pow Log: 2.22

12.4 Mobility in soil

CAS: 27813-02-1

Absorption/desorption

Koc: 80

Conclusion: High

Surface tension: N/A

Volatility

Henry: 9E-4 Pa·m³/mol

Dry soil: N/A

Moist soil: N/A

CAS: 25013-15-4

Absorption/desorption

Koc: N/A

Conclusion: N/A

Surface tension: 3.2E-2 N/m (68 °F)

Volatility

Henry: N/A

Dry soil: N/A

Moist soil: N/A

CAS: 603-35-0

Absorption/desorption

Koc: N/A

Conclusion: N/A

SECTION 12: Ecological information (....)

Surface tension: 1.168E-2 N/m (766.49 °F)

Volatility

Henry: N/A

Dry soil: N/A

Moist soil: N/A

12.5 Results of PBT and vPvB assessment

- No information available

12.6 Endocrine disrupting properties

- No information available

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Do not empty into drains - dispose of this material and container in a safe way
- Dispose of contents/container to an authorised waste collection point

SECTION 14: Transport information

14.1 Air (ICAO/IATA)

- Not classified as hazardous for transport

14.2 Road/Rail (ADR/RID)

- Not classified as hazardous for transport

14.3 Sea (IMDG)

- Not classified as hazardous for transport

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

14.7 Maritime transport in bulk according to IMO instruments

- No information available

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 Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
-

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H332: Harmful if inhaled. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

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.

--- end of safety datasheet ---
