

Alfix C2 Epoxy – Part B

SECTION 1:

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Alfix C2 Epoxy – Part B

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

Part B of 2-part acid resistant epoxy grout for grouting of all ceramic surfaces, such as tiles, mosaics, and quarry tiles.

1.3 Details of the supplier of the safety data sheet:

Alfix A/S
H.C. Ørsteds Vej 11-13
DK-6000 Kolding
Tel.: +45 75 52 90 11
Fax: +45 75 50 40 11
e-mail: alfix@alfix.dk
Contact person: Allan Nielsen / Frank Pingel

1.4 Emergency telephone number

+45 75 52 90 11 (Alfix)

SECTION 2:

Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to EEC regulations 67/548/EEC and 99/45/EEC

Hazard symbol:



Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word

Danger

· Hazard-determining components of labelling:

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

triethylenetetramine

4,4'-Isopropylidendiphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,

reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Polyethylenpolyamin (Teta - Fraktion)

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe dusts or mists.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

PBT/vPvB: The substances are not PBT/vPvB according to the criteria in Annex XIII.

SECTION 3: Composition/information on ingredients

3.1 Substances: - Mixtures:

| Substances :- Mixtures: | CAS-No. | EC-No. | Content-% | REACH reg. NO | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|-----------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Benzylalkohol | 100-51-6 | 202-859-9; | 25-50% | 01- 2119492 630-38 | Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irr.2; H319 |
| 3-aminomethyl- 3,5,5- trimethylcyclo hexylamine | 2855-13-2 | 220-666-8 | 10-25% | | Skin Corr. 1B; H314 Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1; H317 Aquatic Chronic 3; H412 |
| 4,4'- Isopropyliden diphenol, oligomeric reaction products with 1-chloro- 2,3- epoxypropane , reaction products with 3- aminomethyl- 3,5,5- trimethylcyclo hexylamine | 38294-64-3 | | 2,5-10% | | Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412 |
| Isononylbenz oat | 670241-72- 2 | | 2,5-10% | | Aquatic Chronic 2; H411 |
| Triethylen- tetramine | 112-24-3 | 203-950-6 | 2,5-10% | | Skin Corr. 1B; H314 Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1; H317 Aquatic Chronic 3; H412 |
| Polyethylenpo lyamin (Teta- fraktion) | 90640-67-8 | | 2,5-10% | | Skin Corr. 1B; H314 Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1; H317 Aquatic Chronic 3; H412 |
| N,N-bis(2- aminoethyl)et hylendiamin | 4097-89-6 | | < 0,5% | | Skin Corr. 1B; H314 Acute Tox. 3; H301 Acute Tox. 2; H310 Eye Dam. 1; H318. Aquatic Chronic 3; H412 |

 CLP*: Regulation (EC) No 1272/2008 of the European Parliament and of the Council
For the full text of H-phrases see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures: General information

Remove contaminated, saturated clothing immediately. If medical advice is needed, have product container, label or safety data sheet at hand.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a physician in case of symptoms.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest.

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:

None

**SECTION 5:
Firefighting measures****5.1 Extinguishing media:**

Suitable extinguishing media
Carbon dioxide (CO₂) Extinguishing powder Water spray alcohol resistant foam
Unsuitable extinguishing media
High power water jet

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products
Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Ammonia (NH₃)

5.3 Advice for firefighters:

Do not allow run-off from fire-fighting to enter drains or water courses.
Special protective equipment for firefighters
In case of fire: Wear self-contained breathing apparatus.

**SECTION 6:
Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protection equipment. Avoid contact with skin and eyes. Do not breathe vapour.

6.2 Environmental precautions:

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and clearing up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

6.4 References to other sections: See above.**SECTION 7:
Handling and storage****7.1 Precautions for safe handling:**

Protective measures
Use only in well-ventilated areas. Avoid contact with skin and eyes.
Measures to prevent fire
No special fire protection measures are necessary.
Specific requirements or handling rules
For mixing of both components: Please refer also to material safety data sheet of part A.
Mixing

ratio and additional information please see technical data sheet. Do not leave mixed material in the

container - curing can lead to excessive heat.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions
Keep container tightly closed in a cool, well-ventilated place.
Hints on joint storage
Storage class (TRGS 510) : 8B
Do not store together with
Food and feedingstuffs

7.3 Specific end use(s):

Hardener for 2-part system based on epoxy resins - Observe technical data sheet.

**SECTION 8:
Exposure controls/personal protection****8.1 Control parameters:**

None.

8.2 Exposure controls:**Personal protection equipment****Eye/face protection**

goggles or Face protection shield - DIN EN 166

Skin protection**Hand protection**

Wear suitable gloves. - DIN EN 374

Suitable material : NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) special laminates (0,75 mm)

-

Unsuitable material: Leather.

Breakthrough time (maximum wearing time) : The permeation time (max. usage time) of the gloves depends on material and thickness as well as temperature. The data are available from the manufacturer of the specific gloves. The permeation time for the mentioned glove materials is in general > 480 min.

Recommended glove articles : Appropriate gloves are available e.g. from Mapa-Professionel (F-92205 Neuilly sur Seine - France): ULTRIL® 377 (NBR - 1,3 mm) -

ULTRANITRIL® (491, 492, 494 oder 495 - NBR - 0,55mm) - CHEM-PLY® (0,75 mm) -

Remark : Gloves have to be changed and disposed immediately after strong pollution or damage, with splashes after the expiry of the specified maximum wearing time, but no later than the end of work shift.

Body protection

Wear suitable protective clothing.

Respiratory protection

Breathing protection equipment required in inadequately ventilated places and during spraying.

Suitable respiratory protection apparatus

For short term use: Combination filtering device (EN 14387) combination filter - type A-P2 (for gases and vapours of organic compounds, boiling point above 65 °C / particles, colour code: brown / white)

General health and safety measures

The usual precautionary measures for the handling of chemicals have to be observed.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately. Avoid contact with skin, eyes and clothes.

SECTION 9:

Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Pasty.

Odour: -

Odour threshold: -

pH: -

Melting point/freezing point: -

Initial boiling point and boiling range: -

Flash point:-

Evaporation rate: -

Flammability (solid, gas): -

Upper/lower flammability or explosive limits: -

Vapour pressure: -

Vapour density: -

Relative density: -

Solubility(ies): Soluble

Partition coefficient: n-octanol/water: -

Auto-ignition temperature: -

Decomposition temperature: -

Viscosity: -

Explosive properties: -

Oxidising properties: -

9.2 Other information: The product is not self-igniting. The product is not explosive.

SECTION 10:

Stability and reactivity

10.1 Reactivity:

After mixing the two components of the material cures.

10.2 Chemical stability:

Product is stable under normal conditions.

10.3 Possibility of hazardous reactions:

No information available.

10.4 Conditions to avoid:

None, if handled according to order.

10.5 Incompatible materials:

Exothermic reaction with: Acid

10.6 Hazardous decomposition products:

Gases/vapours, corrosive Ammonia.

**SECTION 11:
Toxicological information****11.1 Information on toxicological effects:**

100-51-6 Benzyl alcohol
Oral LD50 1,570 mg/kg (rats)
Inhalative LC50 11 mg/l
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Oral LD50 1,030 mg/kg (rats)
Dermal LD50 1,840 mg/kg (rats)
670241-72-2 Isononylbenzoat
Oral LD50 >2,500 mg/kg (rats)
Dermal LD50 >2,000 mg/kg (rats)
112-24-3 triethylenetetramine
Oral LD50 1,716.2 mg/kg (rats)
Dermal LD50 1,465.4 mg/kg (rabbit)
4097-89-6 N,N-bis(2-aminoethyl)ethylendiamin
Oral LD50 100 mg/kg
Dermal LD50 117 mg/kg (rats)
· Primary irritant effect:
· 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.
· Additional toxicological information: Sensitizing
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
· Germ cell mutagenicity Based on available data, the classification criteria are not met.
· Carcinogenicity Based on available data, the classification criteria are not met.
· Reproductive toxicity Based on available data, the classification criteria are not met.
· STOT-single exposure Based on available data, the classification criteria are not met.
· STOT-repeated exposure
Based on available data, the classification criteria are not met.
· Aspiration hazard Based on available data, the classification criteria are not met.

**SECTION 12:
Ecological information****12.1 Toxicity:**

Aquatic toxicity

The mixture has been checked following the conventional method for eco-toxicological properties. If classified as eco-toxic see section 2 for details.

12.2 Persistence and degradability

No available data.

12.3 Bioaccumulative potential:

No available data.

12.4 Mobility in soil:

No available data.

12.5 Results of PBT and vPvB assessment:

The substances are not PBT/vPvB according to the criteria in Annex XIII.

12.6 Other adverse effects:

No available data.

12.7 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

**SECTION 13:
Disposal considerations****13.1 Waste treatment methods:**

Product/Packaging disposal

Uncured product: Special waste.

Cured product, i.e. after mixing with adequate amount of binder / part A: household garbage or trade garbage - observe local regulations.

Waste codes/waste designations according to EWC/AVV

08 04 09*: Waste adhesives and sealants containing organic solvents or other dangerous substances.

Waste treatment options

Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

13.2 EWC-code:

08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substances.

**SECTION 14:
Transport information**

The product is considered as dangerous goods.

14.1 UN-number: 2735

14.2 UN proper shipping name: -

14.3 Transport hazard class(es):

Land transport (ADR/RID)

Class(es) : 8

Classification code : C7

Hazard identification number
(Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 7 · LQ 5 I · E 1
Hazard label(s) : 8
Sea transport (IMDG)
Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 5 I · E 1
Hazard label(s) : 8
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 8
Special provisions : E 1
Hazard label(s) : 8

14.4 Packing group: III**14.5 Environmental hazards:**

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user: None**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant**SECTION 15:
Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

National regulations
Observe in addition any national regulations!
Restrictions of occupation
Please consider possible restrictions for the protection of pregnant and breastfeeding women at work (Directive 92/85/EC) and for the protection of young people at work (Directive 94/33/EC).
Water hazard class (WGK)
Class : 2 (Hazardous to water) Classification according to VwVwS
Other regulations, restrictions and prohibition regulations
Betriebssicherheitsverordnung (BetrSichV)
No flammable liquid according to BetrSichV.

15.2 Chemical safety assessment:

No CSA

**SECTION 16:
Other information****The given R-phrase and H-phrase in chapter 2 and 3 are to read as follows:**

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.