

Alfix C2 Epoxy - Part A

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

1.1 Product identifier: Alfix C2 Epoxy – Part A

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

Part A 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: 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]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

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

2.2 Label elements

Labelling according to CLP (1272/2008)

Hazard symbol:



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

bisphenol-F-epoxy resin

1,6-bis(2,3-ethoxypropoxy)hexane

N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards:

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

**SECTION 3:
Composition/information on
ingredients**
**3.1 Substances: -
Mixtures:**

Substances: - Mixtures:	CAS-No.	EC-No.	Content-%	REACH reg.No	Classification
Reaction product: bisphenol-A-diglycidyl-ether homologue number average molecular weight ≤ 700	25068-38-6	500-033-5	10-25%	-	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
Aluminiumsilikat	65997-17-3		2,5-10%	-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3, H335
Oxiran, mono[(C12-14-alkyloxy)methyl]derivater	68609-97-2	271-846-8	<2,5%	-	Skin Irrit. 2; H315 Skin Sens. 1; H317
Bisphenol-F-resin	9003-36-5	500-006-8	<2,5%	-	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
1,6-bis(2,3-ethoxypropoxy)hexan	16096-31-4		<1%		Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
N,N'-ethane-1,2-diybis(12-hydroxyoctadecan-1-amide)	123-26-2		<0,5%		Skin Sens. 1; H317 Aquatic Chronic 3; H412
3-iodo-2-propynylbutyl carbamat	55406-53-6		< 0,5%		Acute Tox. 3; H331 STOT RE 1; H372 Eye Dam. 1; H318 Skin Sens. 1; H317 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

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

Full water jet

5.2 Special hazards arising from the substance or mixture:

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x)

5.3 Advice for firefighters:

Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment for firefighters

Use suitable 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. 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:**

Use only in well-ventilated areas. Avoid contact with skin and eyes.

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 B.

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:

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Storage class (TRGS 510) : 10

Do not store together with

Food and feedingstuffs

7.3 Specific end use(s):

Binder for 2-part epoxy adhesive - Observe technical data sheet.

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

None.

8.2 Exposure controls:

Appropriate engineering controls:

None.

8.3 Individual protection measures, such as personal protective equipment:

Eye/face protection

Eye glasses with side protection - DIN EN 166

Skin protection

Hand protection

Wear suitable gloves. - DIN EN 374

Suitable material (and thickness) : NBR (Nitrile rubber - 0,85 mm) - IIR (Butyl caoutchouc / butylrubber - 0,7 mm) - 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.

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.

8.4 Environmental exposure controls:

Disposal in accordance with local authority requirements. See section 13.

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: Alcohols Amines. Exothermic polymerisation.

10.6 Hazardous decomposition products:

Gases/vapours, irritant.

SECTION 11:

Toxicological information

11.1 Information on toxicological effects:

LD/LC values that are relevant for classification

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)

Oral LD50 >5,000 mg/kg (rats)

Dermal LD50 >2,000 mg/kg (rats)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Oral LD50 34,600 mg/kg (rats)

Dermal LD50 >23,800 mg/kg (rabbit)

9003-36-5 bisphenol-F-epoxy resin

Oral LD50 >10,000 mg/kg (rats)

Dermal LD50 >2,000 mg/kg (rats)

16096-31-4 1,6-bis(2,3-ethoxypropoxy)hexane

Oral LD50 1,400 mg/kg (rabbit)

2,900 mg/kg (rats)

Inhalative LC50/4 h >100 mg/l (Maus)

55406-53-6 3-Iodo-2-propynylbutylcarbamate

Oral LD50 1,470 mg/kg (rats)

Dermal LD50 >2,000 mg/kg (rats)
Inhalative LC50/4 h >6.89 mg/l (rats)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **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
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
LC50 96 mg/l (rainbow trout)
EC50 (48h) 1.7 mg/l (Daphnia sp.)
EC50 48 mg/l (Daphnia magna)
NOEC 0.3 mg/l (Daphnia magna)
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
EC50 (48h) 1-10 mg/l (Daphnia magna)
EC50 1-10 mg/l (Daphnia magna)
9003-36-5 bisphenol-F-epoxy resin
LC50/96h 2.54 mg/l (Leuciscus idus)
EC50 2.55 mg/l (Daphnia magna)
ERC50 1.8 mg/l (algae toxicity)
The mixture has been checked following the conventional method for eco-toxicological properties. If classified as ecotoxic 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.

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 hardener: 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:

Please note: The classification of waste for this product may change according to the field of its application. Please observe Directive 2001/118/EC.

SECTION 14: Transport information

The product is not considered as dangerous goods.

14.1 UN-number: -

14.2 UN proper shipping name: -

14.3 Transport hazard class(es):

ADR/RID: -

IMDG: -

IATA:-

14.4 Packing group:

ADR/RID: -

IMDG: -

IATA:-

14.5 Environmental hazards: 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:

No Special education/training requirements, but knowledge to of this Material Safety Data Sheet ought to be a requirement.

EU-directive 2004/42/EF

There can be local authority requirements.

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:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.