

SECTION 1:**Identification of the substance/mixture and of the company/undertaking****NormalFix****1.1 Product identifier:** Alfix NormalFix**1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Used as tile adhesive.**1.3 Details of the supplier of the safety data sheet:**

Alfix A/S
H.C. Ørstedsvej 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:**According to CLP (1272/2008)

Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335.

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Dust may irritate throat and respiratory system and cause coughing. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Dust or splashes from the mixture may cause permanent eye damage. Dust has an irritating effect on moist skin. Prolonged contact with wet cement/mixture may cause burns.

According to EEC regulations 67/548/EEC and 99/45/EEC:

The product is classified Xi; R37/38-41

The product may cause severe eye damage and will irritate skin and respiratory tract. Cement in contact with water: When mixing with water there will be calciumhydroxide, which is highly irritating - corrosive on skin and in eyes.

The full text for R- and H-phrases see section 16.

2.2 Label elementsLabelling according to CLP (1272/2008)

Signal word: Danger.
Contains Portland cement.

Causes skin irritation (H315).

Causes serious eye damage (H318).

May cause respiratory irritation (H335).

Keep out of reach of children (P102).

Avoid breathing dust (P261).

Wear protective gloves/protective clothing/eye protection/face protection (P280).

IF EXPOSED: Call a POISON CENTER or doctor/physician (P307+P311)

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell (P301+P312).

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

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

Dispose of contents/container to local regulations (P501).

Other labelling:

The chromate content is less than 2 mg/kg cement. 12 months shelf-life on dry keeping. Packing date and storage condition stated on the packaging. When kept under moist conditions such as building sites, the chromate neutralization will gradually take off. Opened packaging to be closed tightly after use and used as soon as possible.

2.3 Other hazards:

None known.

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.	Index-No.	Con-tent- %	REACH reg.No	Classification
Cement	65997-15-1	266-043-4	-	10-50	-	Xi;R37/38 R41 CLP*: Skin Irrit.2:H315 Eye Dam 1:H318 STOT SE 3:H335

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

SECTION 4:

First aid measures

4.1 Description of first aid measures:

Inhalation:

Bring the injured to fresh air. **Mild cases:** Keep the injured in rest under supervision. In case of discomfort: Contact a doctor.

Severe cases: Move the unconscious person into recovery position and keep warm with head kept low. If breathing has stopped, begin artificial respiration. Seek medical advice or call an ambulance immediately.

Skin contact:

Remove contaminated clothing. Brush gently, until dust is removed. Wash then the skin carefully with water and soap. Use suitable lotion to moisturise skin. If irritation persists, seek medical advice.

Eye contact:

Rinse wide opened eye immediately with water or physiological saltwater for at least 15 minutes. Remove contact lenses if any. If irritation persists or recurs seek medical advice.

Ingestion:

Immediately rinse mouth carefully and drink plenty of water. Do not induce vomiting. Drink water or milk and seek medical advice. immediately. If it is not possible to get immediately medical attention: Do not induce vomiting. Keep the head low to avoid the content from the stomach to reach the lungs. Seek medical advice.

Burn:

Not relevant. Product is not flammable.

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

Strong irritation in contact with eyes, skin and respiratory tract.

Cement in contact with water: When mixing with water there will be calciumhydroxide, which is highly irritating - corrosive on skin and in eyes.

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

Unconsciousness: Seek medical advice or call an ambulance immediately. Show this Material Safety Data Sheet to the doctor or at the emergency room.

SECTION 5:

Firefighting measures

5.1 Extinguishing media:

Carbon dioxide, alcohol resistant foam or powder. Do not use water fog or water spray.

5.2 Special hazards arising from the substance or mixture:

Product is not flammable. During a fire, harmful smoke will be developed.

5.3 Advice for firefighters:

Remove container if possible, or cool with water. Use breathing apparatus.

SECTION 6:

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Personal equipment: See section 8. Ventilate well.

6.2 Environmental precautions:

Prevent access to drains, sewers, waterways and soil. See section 12.

6.3 Methods and material for containment and clearing up:

Collect spillage with vacuum cleaner. Rinse carefully with water. Disposal: See section 13.

6.4 References to other sections:

See above.

SECTION 7:

Handling and storage

7.1 Precautions for safe handling:

Avoid dust generating and contact with skin and eyes. Wash immediately when skin is contaminated. Access to running water and eye rinse.

7.2 Conditions for safe storage, including any incompatibilities:

Keep only in the original container, tightly closed. Store in a cool, well ventilated, dry place.

Keep away from food, drinks and animal feed.

7.3 Specific end use(s):

See use of the substance in section 1.

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

Occupational Exposure Standard, Threshold limit values (2007).

Calciumhydroxide 5 mg/m³

Cement; Inhalable dust 10 mg/m³

Cement; respirable dust 4 mg/m³

Kvarts, total 0,3 4 mg/m³

Local authority requirements have to be followed.

DNEL: No CSR

PNEC: No CSR

8.2 Exposure controls:

Appropriate engineering controls:

None.

8.3 Individual protection measures, such as personal protective equipment:

Respiratory protection: Dust development and while mixing with water; Use dust mask with size of pore less than 5µm or mask with dust filter P2.

Skin protection: Use protection gloves of e.g. PVC, neoprene or vinyl. There is no time for glove penetration, therefore change gloves, when it is contaminated.

Eye protection: Use eye protection to avoid the product getting into the eyes

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: Powder

Odour: -

Odour threshold: -

pH: 11 – 13 (mixed cement)

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: -**SECTION 10:****Stability and reactivity****10.1 Reactivity:**

Stable under normal condition

10.2 Chemical stability:

Stable under recommended storing.

10.3 Possibility of hazardous reactions:

None.

10.4 Conditions to avoid:

Hardens in contact with water and moisture.

10.5 Incompatible materials:

None.

10.6 Hazardous decomposition products:

None.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Hazard class	Test data	Test method	Source
Acute toxicity:	Cement:		
Inhalation	LC ₅₀ (rat) = 1 mg/l/4h	-	IUCLID
Dermal	LDL ₅₀ (rabbit) = 2000 mg/kg/24h	-	Company
Oral	No available data	EPA guidelines	IUCLID
Irritation/Corrosivity:	Skin(rabbit): Corrosive/Irritating	OECD 404	IUCLID
	Eye(rabbit) Irritating/eye damage	OECD 405	IUCLID
Sensitisation:	Sensitizing		IUCLID
CMR:	Cancer: No available data	-	IUCLID
	Mutagenicity: No available data	-	IUCLID
	Fertility: No available data	-	IUCLID
	Birth defects: No available data	-	IUCLID

Information on likely routes of exposure: Through ingestion, inhalation and skin exposure

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

Dust from the product may cause irritation to the respiratory tract and coughing. Repeated inhalation of dust through long time may cause severe lung damage.

Skin contact:

Mixture with water may cause strong skin irritation with claim for damage. Extended contact (4 hours) with the product mixed with water, can cause corrosive effects on not protected skin. The damage will be worsened on dry skin.

Eye contact:

Can in consequence cause strong eye irritation with pain and redness. Risk for severe eye damage.

Ingestion:

Unlikely however if ingested it will give severe irritation – possible corrosion in mouth, stomach and intestinal tract. May cause nausea, discomfort and vomiting

Repeated and immediate effects as well as chronic effects from short and long time exposure:

None known.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic	Data	Testmethod	Source
	Cement:		
Fish	No available data	FW	IUCLID
Aquatic Invertebrates	No available data	-	IUCLID
Algae	No available data	-	IUCLID

The product is not classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Product is immobile, and do not decompose.

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:

By major spill, pH could be increased with subsequent risk of fish dead.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Disposal of in accordance with local authority requirements.

13.2 EWC-code:

17 01 07

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): -

14.4 Packing group: -

14.5 Environmental hazards: None according to the rules of transport

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:**

R37/38: Irritation to respiratory system and skin

R41: Risk of serious damage to eyes

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation