

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

M-Silicon

1.1 Product identifier: Alfix M-Silicon.

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

Used as highly elastic sealant for movement joints in ceramic tilings, marble, natural stone, etc. and for use on exterior facades.

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)

EUH208 Contains: 2-butanone oxime, Tris(ethylmethylketoximato)vinylsilane, Methyl-O,O',O"-butan-2-on-trioximo-silane. May produce an allergic reaction.

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

Not a hazardous substance or mixture.

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

2.2 Label elements

Labelling according to CLP (1272/2008)

EUH208 Contains: 2-butanone oxime, Tris(ethylmethylketoximato)vinylsilane, Methyl-O,O',O"-butan-2-on-trioximo-silane. May produce an allergic reaction.

Other labelling:

-

2.3 Other hazards:

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances: -

Mixtures:

Chemical characterization (preparation)

Polydimethylsiloxane and fillers and auxiliaries and oximosilane cross-linker.

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. 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:

Any relevant information can be found in other parts of this section.

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 cleaning up:

Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

6.4 References to other sections:

See above.

SECTION 7:**Handling and storage****7.1 Precautions for safe handling:**

Avoid 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:**

None.

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:**

In case of long or strong exposure: gas mask filter ABEK.

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: Paste.

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: 1.4 g/cm³

Solubility(ies): Insoluble.

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 moisture.
10.5 Incompatible materials:
 None.
10.6 Hazardous decomposition products:
 By hydrolysis: 2-butanone oxime and Acetone oxime . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Assessment:

Based on the available data acute toxic effects are not expected after single oral or dermal exposure. Based on the available data a clinically relevant skin or eye irritation hazard is not expected.

Based on animal experiments (OECD 406, Buehler) with oximosilane based silicones of similar composition and similar physico-chemical properties this material is evaluated as non-sensitising.

Hazard class	Test data	Test method	Source
Acute toxicity:	Cement:		
Dermal	LC ₅₀ (rat) > 2009 mg/kg	-	Conclusion by analogy
Oral	LC ₅₀ (rat) > 2009 mg/kg	-	
Irritation/Corrosivity:	Skin(rabbit): Not irritating Eye(rabbit): Not irritating	-	Conclusion by analogy
Sensitisation:	Not sensitizing	guinea-pig; Bühler OECD 406	Conclusion by analogy
CMR:	Cancer: No available data Mutagenicity: No available data Fertility: No available data Birth defects: No available data	-	-

Further toxicological information

Hydrolysis product / Impurity: 2-Butanone oxime (MEKO, CAS 96-29-7) is a dermal sensitizer and strongly irritating to the eyes. 2-Butanone oxime is rapidly absorbed from the gastrointestinal tract, upon contact with skin and after inhalation.

Hydrolysis product / impurity: 2-Propanone oxime (acetoxime, CAS 127-06-0) causes strong irritation upon eye contact. In animals a skin irritation relevant for classification has not been observed. Regarding the potential for skin sensitization inconsistent results are available (GPMT: positive; LLNA: negative). Fast resorption is anticipated upon ingestion, skin contact and inhalative exposure.

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

SECTION 12: Ecological information

12.1 Toxicity:

For the product as a whole, no test data is available. Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

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:

No available data.

12.6 Other adverse effects:

No available data.

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

Disposal of in accordance with local authority requirements.

13.2 EWC-code:

08 04 10

**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-phrased and H-phrased in chapter 2 and 3 are to read as follows:**

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