

**SECTION 1:
Identification of the
substance/mixture and of the
company/undertaking**
P-Silicon
1.1 Product identifier: Alfix P-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 in swimming pools.

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)

Not a hazardous substance or mixture.

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)

Contains: BUTAN-2-ON-O, O', O''-(METHYLSILYLIDYN)TRIOXIM ; 2-BUTANONOXIM. May produce an allergic reaction. (EUH208)

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.

CAS-no.	EC-no.	REACH-no.	Substance	Content	Classification
22984-54-9	245-366-4;	-	BUTAN-2-ON-O, O', O''-(METHYLSILYLIDYN)TRIOXIM	1- < 5%	Xi, R43 R36/38 CLP: Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319
2224-33-1	218-747-8	01-21199705 37-27	BUTAN-2-ON-O, O', O''-(VINYLILYLIDYN)TRIOXIM	< 1%	Xi, R43 R36/38 CLP: Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319
96-29-7	202-496-6	-	BUTANONOXIM	< 1%	Carc. Cat.3 ; R40 R43 Xi ; R41 Xn ; R21 CLP: Carc. 2 ; H351 Eye Dam. 1 ; H318 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317

**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:

Stofnavn	CAS-no.	EC-no.	Type	mg/m ³	E/A	Fibres / m ³
2-Butanonoxime	96-29-7	200-578-6	TRGS900(D)	1		

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; Buehler OECD 406	Conclusion by analogy
CMR:	Cancer: No available data Mutagenicity: No available data Fertility: No available data Birth defects: No available data	- - - -	- - - -

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

R21 Harmful in contact with skin
R36/38 Irritating to eyes and skin
R40 Limited evidence of a carcinogenic effect
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact

H312 Harmful in contact with skin
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
EUH208 Contains: BUTAN-2-ON-O, O', O''-(METHYLSILYLIDYN)TRIOXIM ; 2-BUTANONOXIM. May produce an allergic reaction.