

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 18.03.2019

Kerafix® Brandschutzsilikon

11731-020

ROLFKUHN GMBH

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylydyne)trioxime			< 2,5 %
	700-810-0		01-2120006148-66	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
37859-55-5	O,O',O''-(methylsilylydyne)trioxime 2-pentanone			< 2,5 %
	484-460-1		01-2120004323-76	
	Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 3; H302 H319 H412			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure of fresh air. If necessary, give oxygen. Care for immobility and protect against heat loss. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes

Remove contact lens. Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

Refer to section: 11.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Not known.

5.2. Special hazards arising from the substance or mixture

The formation of toxic gases is possible during heating or in case of fire (for example: carbon monoxide and traces of incompletely burned hydrocarbons).

5.3. Advice for firefighters

Environment-independent breathing apparatus.

Additional information

In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.



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6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to section 13.

6.4. Reference to other sections

Information for personal protective equipment look up section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure good ventilation/exhaustion at the workplace.

Information for personal protective equipment look up section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in cool, dry place in tightly closed containers. Prevent penetration into the ground.

Hints on joint storage

Do not store together with food.

Further information on storage conditions

Protect from heat and direct solar radiation.

7.3. Specific end use(s)

Silicone-sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

The lists valid during the making were used as basis.

Maximum concentration at workplace recommended by producer: methyl ethyl ketoxime (MEKO, CAS:

96-29-7, product of hydrolysis) = 3 ppm .

8.2. Exposure controls

Protective and hygiene measures

Take the usual precautions when handling with chemicals.

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

Eye/face protection

Safety goggles (EN 166).

Hand protection

Protective gloves (EN 374) Safety gloves for the site (EN420, Cat. 1 or 2).

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Nitrile rubber/nitrile latex - NBR (0,35 mm)

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

Breathing protection is not necessary in the case of correct usage under normal conditions. In case of insufficient ventilation, wear suitable respiratory equipment (Multi-purpose filter ABEK).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

pasty

Colour:

according to product specification

Odour:

Characteristic



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pH-Value: Not applicable.

Changes in the physical state

Melting point: Not applicable.

Initial boiling point and boiling range: Not applicable.

Sublimation point: Not applicable.

Flash point: Not applicable

Sustaining combustion: Not sustaining combustion

Flammability

Solid: Not applicable.

Explosive properties

The product is not explosive.

Lower explosion limits: Not determined

Upper explosion limits: Not determined

Ignition temperature: Not applicable

Auto-ignition temperature

Solid: Not applicable.

Decomposition temperature: Not determined

Oxidizing properties

The product is not self-igniting

Vapour pressure: Not applicable.

Density (at 20 °C): 1,17 g/cm³

Water solubility:
(at 20 °C) insoluble

Solubility in other solvents

Not determined

Partition coefficient: Not applicable.

Viscosity / dynamic: Not determined

Viscosity / kinematic: Not determined

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. Protect from heat and direct solar radiation.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

This product may emit formaldehyde vapours in the presence of air and at temperatures above 150°C.

10.4. Conditions to avoid

Protect from heat and direct solar radiation.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects



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Toxicokinetics, metabolism and distribution

No toxicological data available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime				
	oral	ATE 500 mg/kg			
37859-55-5	O,O',O''-(methylsilyldiyl)trioxime 2-pentanone				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Repeated or prolonged exposure may cause irritation of eyes and skin.

Sensitising effects

Contains 3-(triethoxysilyl)-propylamine. May produce an allergic reaction.

Not classified as skin sensitiser. (OECD 406)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Practical experience

Other observations

During processing and subsequent hardening of the product, 2-pentanoxim (CAS-Nr. 623-40-5) is formed, which evaporates. 2-Pentanoxim causes serious eye irritation. High concentrations of 2-pentanoxim inhaled for long periods of time (e.g. with insufficient ventilation) can lead to irreversible health damage. During processing and subsequent hardening of the product, 2-butanone oxime (MEKO) is formed, which evaporates. Extended exposure to MEKO can damage the nasal mucosa. High concentrations of MEKO inhaled for long periods of time (e.g. with insufficient ventilation) can lead to irreversible health damage. After hardening, the material is odourless and inert.

Further information

The product has not been tested. Assessment in analogy to a product with similar structure and function (SAR). Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

The product is not biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Low hazard to waters. Do not discharge into the drains/surface waters/ground water.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal in accordance with local regulations. The hardened material can be disposed of together with the household rubbish or commercial waste. Unused material (liquid, pasty) must be disposed of as hazardous waste.

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Contaminated packagings are to be treated like the product itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

Other applicable information

Not applicable. No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).



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National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

EINECS - Europe: listed
DSL/BDSL - Canada: Not listed
IECSC - China: Not listed
ENCS - Japan: Not listed
NZIoC - New Zeland: Not listed
PICCS - Philippines: Not listed
ECL/KECI - Korea: Not listed
TSCA - USA: Not listed
NECI - Taiwan: Not listed
AICS - Australia: listed

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Update 2019

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains 3-(triethoxysilyl)-propylamine. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

