

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

1.1. Product identifier

Kerafix® Brandschutzsilikon

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

Use of the substance/mixture

Silicone-sealant

Structural fire protection

1.3. Details of the supplier of the safety data sheet

Company name: Rolf Kuhn GmbH
 Street: Jägersgrund 10
 Place: D-57339 Erndtebrück
 Telephone: +49 2753 5945-0
 Telefax: +49 2753 5945-21
 Contact person: Jörg Six
 e-mail: joerg.six@rolfkuhngmbh.com (Contact for technical information)
 Internet: www.kuhn-brandschutz.com

1.4. Emergency telephone

number: +49 (0) 6132 / 84463 (GBK GmbH)
 Responsible for the safety data sheet: GBK GmbH, Ingelheim,
 sds@gbk-ingelheim.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Special labelling of certain mixtures

EUH208 Contains butanone oxime vinylsilane, 3-(triethoxysilyl)-propylamine. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Additional advice on labelling

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

2.3. Other hazards

Chemical substances are released into the air during the processing and hardening of the material (see Section 11).

Therefore, provide good room ventilation and remove by suction as needed.

Results of PBT and vPvB assessment: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Pasty material; contains: Polydimethylsiloxane and fillers, additives, oximo silane cross-linking agent.

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
484-460-1	O,O',O''-(methylsilylidyne)trioxime 2-pentanone	< 2,5 %
37859-55-5		
	Acute Tox. 4, Eye Irrit. 2, STOT RE 2, Aquatic Chronic 3; H302 H319 H373 H412	
218-747-8	Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	< 2,5 %
2224-33-1	Xi - Irritant R38-41-43	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317	

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No hazards which require special 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.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to section 13. Take up mechanically.

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 adequate ventilation, especially in confined areas. 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.

Advice on storage compatibility

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

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 (EN 368).

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).

Environmental exposure controls

Additional exposure limits when there are possible processing hazards:

CAS-No.: 96-29-7, 2-butanone oxime, product of hydrolysis : WPG (workplace guideline recommended by the manufacturer) = 3 ppm.

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

Changes in the physical state

Melting point:	Not applicable.
Initial boiling point and boiling range:	Not determined.
Flash point:	Not applicable
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Density (at 20 °C):	1,17 g/cm ³
Water solubility (at 20 °C):	More or less insoluble
Solubility in other solvents	Not determined
Ignition temperature:	Not applicable
Explosive properties:	The product is not explosive.
Decomposition temperature:	Not determined
Viscosity / dynamic:	Not determined
Viscosity / kinematic:	Not determined

Oxidizing properties

The product is not self-igniting

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

Toxicokinetics, metabolism and distribution

No toxicological data available.

Acute toxicity

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

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
37859-55-5	O,O',O''-(methylsilylydyne)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

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

Not classified as skin sensitiser. (OECD 406)

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

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-pentanone oxime (CAS-Nr. 623-40-5) is formed, which evaporates. 2-Pentanone oxime causes serious eye irritation. High concentrations of 2-pentanone oxime 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.

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); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)

14.1. UN number:

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

14.2. UN proper shipping name:

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

14.3. Transport hazard class(es):

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

14.4. Packing group:

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

14.5. Environmental hazards

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

14.6. Special precautions for user

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

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

Additional information

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

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

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Changes in chapter: 3, 9, 11, 15.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
DOT = Department of Transportation
TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full text)

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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains butanone oxime vinylsilane, 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

Safety Data Sheet according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

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Kerafix® Brandschutzsilikon

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ROLFKUHNGMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

legal warranty regulations.

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