

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

1.1. Product identifier

Paste hardener red for K-silicones

CAS No.: --
EC No.: --
UFI DC00-60HP-900K-GMC8
REACH No.: --

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

Relevant identified uses: Hardener for Kneton Lab 80, Kneton Lab 95
Uses advised against: Other

1.3. Details of the supplier of the safety data sheet

Manufacturer

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 Pfalzgrafeweiler

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Supplier

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1.4. Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:
Skin Irrit. 2, H315; STOT RE 2, H373

2.2. Label elements

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

Hazard pictograms



GHS07, GHS08

Signal word: Warning

Hazard statements:

H315 Causes skin irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash .? thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+352 IF ON SKIN: Wash with plenty of water/.?.
 P314 Get medical advice/attention if you feel unwell.
 P321 Specific treatment (see .? on this label).
 P332+313 If skin irritation occurs: Get medical advice/attention.
 P362+364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container to .?.

Special labelling of particular preparations:

none

2.3. Other hazards

The mixture contains the following substances of very high concern (SVHC), which are subject to authorisation according to REACH, Annex XIV: CAS: 78-10-4 tetraethyl silicate; ethyl silicate

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

Mixture with, among others, the following ingredients and other non-hazardous admixtures

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Tetrakis(2-butoxyethyl)orthosilicat	18765-38-3		22	Skin Irrit. 2, H315	M = 0
Bis(neodecanoyloxy)diocetylstannan	68299-15-0		12,5	STOT RE 2, H373; Aquatic Chronic 4, H413	
tetraethyl silicate; ethyl silica	78-10-4		< 0,3	Flam. Liq. 3, H226; Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT SE 3, H335	M = 0

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Remove contaminated clothing immediately and dispose off safely.
In case of inhalation: Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.
Following skin contact: After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist. In case of skin irritation, consult a physician. Take off immediately all contaminated clothing.
After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person

is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Extinguishing powder. Sand. Foam.

Unsuitable extinguishing media Water.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Protect against: Heat UV-radiation/sunlight

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL

PNEC Value

Substance:	CAS-No.:	PNEC

Additional information

Occupational exposure limit value: TRGS 900

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

Suitable gloves type: NBR (Nitrile rubber). PVC (Polyvinyl chloride). CR (polychloroprene, chloroprene rubber).

Eye/face protection

Eye protection: not required.

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Environmental exposure controls

refer to chapter 7. No further action is necessary. Do not allow to enter into surface water or drains.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Paste
Colour: red
Odour: characteristic like: ester
Odour threshold: No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:		45 - 65	°C	
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not determined
Upper flammability or explosive limits:				not determined
Flash point:		130	°C	
Ignition temperature:				none Risk of selfignition.
Decomposition temperature:				not determined
pH:				not determined
Kinematic viscosity:				not determined
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:	approx.	0,96	g/cm ³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

Polymerization.

10.2. Chemical stability

none slow decomposition spontaneous decomposition

10.3. Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Acid. Base. Oxidising agent

10.6. Hazardous decomposition products

Carbon dioxide (CO₂) Carbon monoxide. Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data are not available.

M-factor: --

Acute toxicity (dermal): --

Acute toxicity (oral): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Tetrakis(2-butoxyethyl)orthosilicat	18765-38-3	LD50 oral (rat) > 2000 mg/kg LD50 dermal > 2000 mg/kg
tetraethyl silicate; ethyl silica	78-10-4	LD0 dermal (Rabbit) 119 mg/kg LC50 inhalativ > 245 mg/l

Skin corrosion/irritation:

Irritating to skin.

Serious eye damage/irritation:

Irritating to eyes.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

Toxicological data are not available.

Germ cell mutagenicity:

Toxicological data are not available.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

11.2. Information about other hazards

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Do not allow to enter into surface water or drains. There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Tetrakis(2-butoxyethyl)orthosilicat	18765-38-3	LC50 > 90 mg/l EC50 Algae (72 h) > 161 mg/l
tetraethyl silicate; ethyl silica	78-10-4	EC50 Daphnia (Daphnia magna) 48 h > 193 mg/l NOEC/NOEL Algae (Pseudokirchneriella subcapitata) 72 h 245 mg/l EC50 Daphnia (Daphnia magna) 48 h > 75 mg/l NOEC/NOEL Daphnia (Daphnia magna) 21 d 75 mg/l

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disruptive effect

12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Do not allow to enter into surface water or drains. Dispose of waste in own country; otherwise, follow EC regulations. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

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Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

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14.3. Transport hazard class(es)

Hazard label(s) / Label: -- Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

	Yes	No
ADR/RID / IMDG / ICAO-TI / IATA-DGR:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Marine pollutant:	<input type="checkbox"/>	<input checked="" type="checkbox"/>

14.6. Special precautions for user

Land transport (ADR/RID)
transport category: -- tunnel restriction code: --
Special provisions: -- Limited quantity (LQ): --

Sea transport (IMDG)
EmS-No: --
Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

No information available.

Restrictions of occupation
No information available.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

No information available.

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

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

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):

Hazard statements

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Training advice

none

Recommended restrictions of use:

none

Further remarks:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage

Documentation of changes:

none

Key literature references and sources for data

none

Abbreviations and acronyms

Wording of the r-phrases under paragraph 3: