

SILCASIL 320

Version number: 6.0
Replaces version of: 13.10.2020 (5)

Revision: 13.01.2022
First version: 28.10.2008

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

1.1 Product identifier

Trade name	<u>SILCASIL 320</u>
Registration number (REACH)	Not relevant (mixture)
CAS number	not relevant (mixture)

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

Relevant identified uses	Sealant
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1.3 Details of the supplier of the safety data sheet

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH Elberfelder Straße 200a D-40822 Mettmann Germany	Telephone: +49 (0) 2104 9727-0 Telefax: +49 (0) 2104 9727-25 e-mail: reach@silca-online.de Website: www.silca-online.de
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e-mail (competent person) sdb@csb-online.de

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH.

1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
Germany	Giftinformationszentrum - Nord Göttingen	+49 551 19240

As above or nearest toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

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Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word warning

Pictograms

GHS07, GHS08



Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed).

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

Hazardous ingredients for labelling

butan-2-one O,O',O''-(methylsilyldiyl)trioxime
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.







SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Hazardous ingredients						
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Specific Conc. Limits	M-Factors
butan-2-one O,O',O''- (methylsilylidyne)trioxime	CAS No 22984-54-9 EC No 245-366-4	10 – < 25	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 STOT RE 2 / H373	 	-	-
2-propanone, O,O',O''-(ethyl- silylidyne)tri- oxime	CAS No 58190-57-1 EC No 611-631-1	1 – < 5	STOT RE 2 / H373		-	-
butan-2-one- O,O',O''- (vinylsilylidyne)t rioxime	CAS No 2224-33-1 EC No 218-747-8	1 – < 5	Eye Dam. 1 / H318 Skin Sens. 1B / H317 STOT RE 2 / H373	  	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing.

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

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth. Do not induce vomiting.
Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Co-ordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

use suitable breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.
Ventilate affected area.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.
Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.
Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.
Personal protective equipment: see section 8.
Incompatible materials: see section 10.
Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.
Do not breathe vapour/spray.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.
Keep away from sources of ignition - No smoking.

Specific notes/details

None.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.
Wash hands after use.
Preventive skin protection (barrier creams/ointments) is recommended.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

Storage temperature

recommended storage temperature: 5 - 35 °C

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
butan-2-one O,O',O''-(methylsilyldyne)trioxime	22984-54-9	DNEL	1,02 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
butan-2-one O,O',O''-(methylsilyldyne)trioxime	22984-54-9	DNEL	0,145 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-propanone, O,O',O''-(ethylsilyldyne)trioxime	58190-57-1	DNEL	0,419 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-propanone, O,O',O''-(ethylsilyldyne)trioxime	58190-57-1	DNEL	0,059 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
butan-2-one- O,O',O''-(vinylsilyldyne)trioxime	2224-33-1	DNEL	1,06 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
butan-2-one- O,O',O''-(vinylsilyldyne)trioxime	2224-33-1	DNEL	0,15 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	0,018 mg/l	freshwater
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	0,002 mg/l	marine water
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	3,9 mg/l	sewage treatment plant (STP)
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	557,5 mg/kg	freshwater sediment
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	55,75 mg/kg	marine sediment
butan-2-one O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	PNEC	65,63 mg/kg	soil
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	0,24 mg/l	freshwater
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	0,024 mg/l	marine water
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	2,398 mg/l	sewage treatment plant (STP)
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	2.047 mg/kg	freshwater sediment
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	204,7 mg/kg	marine sediment
2-propanone, O,O',O''-(ethylsilyldiyl)trioxime	58190-57-1	PNEC	241 mg/kg	soil
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	0,019 mg/l	freshwater
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	0,002 mg/l	marine water
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	4,06 mg/l	sewage treatment plant (STP)
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	1.137 mg/kg	freshwater sediment
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	113,7 mg/kg	marine sediment
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	PNEC	133,8 mg/kg	soil
butan-2-one O,O',O''-(methylsilyldiyl)trioxime: PNEC Secondary Poisoning 3,22 mg/kg food				
butan-2-one-O,O',O''-(vinylsilyldiyl)trioxime: PNEC Secondary Poisoning 3,333 mg/kg food				

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
PVC: polyvinyl chloride	≥ 0,35 mm	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid (pasty)
Colour	grey
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined

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Flash point	>198 °C
Auto-ignition temperature	290 °C
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Dynamic viscosity	not determined
Solubility(ies)	
Water solubility	not miscible in any proportion
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not determined
Density and/or relative density	
Density	1,15 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)
9.2 Other information	
Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

acids, bases, oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Test data are not available for the complete mixture.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
butan-2-one O,O',O''-(methylsilyldi- dyne)trioxime	22984-54-9	oral	LD50	2.463 mg/kg	rat
butan-2-one O,O',O''-(methylsilyldi- dyne)trioxime	22984-54-9	dermal	LD0	>2.000 mg/kg	rat
2-propanone, O,O',O''-(ethylsilyldi- dyne)trioxime	58190-57-1	oral	LD50	>2.500 mg/kg	rat, female
2-propanone, O,O',O''-(ethylsilyldi- dyne)trioxime	58190-57-1	dermal	LD50	>2.000 mg/kg	rat
butan-2-one-O,O',O''-(vinylsilyldi- dyne)trioxime	2224-33-1	oral	LD0	>2.000 mg/kg	rat, male
butan-2-one-O,O',O''-(vinylsilyldi- dyne)trioxime	2224-33-1	dermal	LD0	>2.009 mg/kg	rat

Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butan-2-one O,O',O''-(methylsilylidyne)tri-oxime	22984-54-9	EC50	201 mg/l	daphnia magna	48 h
butan-2-one O,O',O''-(methylsilylidyne)tri-oxime	22984-54-9	EC50	6,1 mg/l	algae (pseudokirchneriella subcapitata)	72 h
butan-2-one O,O',O''-(methylsilylidyne)tri-oxime	22984-54-9	ErC50	16 mg/l	algae (pseudokirchneriella subcapitata)	72 h

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	LC50	>100 mg/l	japanese ricefish/medaka (<i>Oryzias latipes</i>)	96 h
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	LC50	558 mg/l	fathead minnow (<i>Pimephales promelas</i>)	96 h
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	EC50	544,3 mg/l	daphnia magna	48 h
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	ErC50	252,9 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	72 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	LC50	>100 mg/l	japanese ricefish/medaka (<i>Oryzias latipes</i>)	96 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	EC50	843 mg/l	japanese ricefish/medaka (<i>Oryzias latipes</i>)	96 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	EC50	201 mg/l	daphnia magna	48 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	EC50	6,1 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	72 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	ErC50	16 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	72 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	EC50	>100 mg/l	daphnia magna	21 d
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	LC50	>100 mg/l	japanese ricefish/medaka (<i>Oryzias latipes</i>)	14 d
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	LC50	>100 mg/l	daphnia magna	21 d

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	NOEC	2,6 mg/l	algae (pseudokirchneriella subcapitata)	72 h
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	NOEC	50 mg/l	japanese ricefish/medaka (Oryzias latipes)	14 d
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	NOEC	≥100 mg/l	daphnia magna	21 d
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	NOEC	50 mg/l	algae (pseudokirchneriella subcapitata)	72 h
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	growth (EbCx) 20%	151,1 mg/l	microorganisms	3 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	LC50	>100 mg/l	japanese ricefish/medaka (Oryzias latipes)	14 d
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	LC50	>100 mg/l	daphnia magna	21 d
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	EC50	>100 mg/l	daphnia magna	21 d
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	NOEC	2,6 mg/l	algae (pseudokirchneriella subcapitata)	72 h
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	NOEC	50 mg/l	japanese ricefish/medaka (Oryzias latipes)	14 d
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	NOEC	≥100 mg/l	daphnia magna	21 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	carbon dioxide generation	23,6 %	28 d
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	oxygen depletion	9,1 %	28 d

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Name of substance	CAS No	Process	Degradation rate	Time
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	biotic/abiotic	20 %	28 d

Biodegradation

No data available.

Persistence

No data available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	0,5 – 0,6	-
2-propanone, O,O',O''-(ethylsilylidyne)trioxime	58190-57-1	3,162	-
butan-2-one-O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	≥0,5 – ≤0,6	-

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

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Waste treatment of containers/packagings

Completely emptied packages can be recycled.
Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1	UN number or ID number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	CAS No	Restriction
SILCASIL 320	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3

Legend

- R3
1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 2. Articles not complying with paragraph 1 shall not be placed on the market.
 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and
 - present an aspiration hazard and are labelled with H304.
 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

Legend

- (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
- (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
- (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

Not assigned.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 1
(water hazard class) - classification acc. to annex 1 (AwSV)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances	-	≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

- 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10
(combustible liquids)

Other information

Observe employment restrictions for young people according to § 22 JArbSchG.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)

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Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed).

Responsible for the safety data sheet

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Disclaimer

This information is based upon the present state of our knowledge.
This SDS has been compiled and is solely intended for this product.