



Safety Data Sheet

according to Regulation (EC) No 1907/2006

EGOSILICON 320

Revision date: 10.09.2019

Product code: 33200

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

1.1. Product identifier

EGOSILICON 320

Product group: Silicone

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

Use of the substance/mixture

Silicone Sealant

1.3. Details of the supplier of the safety data sheet

Company name:	EGO Dichtstoffwerke GmbH & Co. Betriebs KG	
Street:	Kaltenbrunn 27	
Place:	D-82467 Garmisch-Partenkirchen	
Telephone:	+49 (0)8821 956 90	Telefax: +49 (0)8821 956 990
e-mail:	info@ego.de	
Contact person:	Laboratory	Telephone: +49 (0)8821 956 960
e-mail:	EGO-Labor@ego.de	
Internet:	www.ego.de	

1.4. Emergency telephone number: +49 55119240 (24h/7d)
GIZ-Nord, Göttingen
Member of EPECs network

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Precautionary statements

P261	Avoid breathing gas, vapour.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing and wash it before reuse.

Special labelling of certain mixtures

EUH208	Contains the biocide active ingredient "2-octyl-2H-isothiazol-3-one" for protection against mold. Keep out of the reach of children. Contains 2-octyl-2H-isothiazol-3-one, 3-(triethoxysilyl) propylamine. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Additional advice on labelling

The classification corresponds to the current EC listing, but is enhanced by specialised literature data and the Company's own information.

2.3. Other hazards

During polymerization the product releases small quantities of oxime. Prevent vapour buildup by providing adequate ventilation during and after use.
Do not inhale highly-concentrated release products for a longer period of time during polymerization, danger of irritation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Chemical characterization

Mixture: Polydimethylsiloxane + curing agents + fillers + auxiliary agents

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
37859-55-5	2-Pentanone, O,O',O''-(methylsilylidyne)trioxime			<5 %
	484-460-1		01-2120004323-76	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H312 H302 H319			
119299-06-8	Polydimethylsiloxan mit N-(3-(Trimethoxysilyl)propyl)cyclohexanamin			1 - < 5 %
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime			< 5 %
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H312 H302 H319			
540-97-6	Dodecamethylcyclohexasiloxane			< 0,2 %
	208-762-8			

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

Further Information

The product contains the following SVHC (substance of very high concern) candidate above the limit of consideration: Dodecamethylcyclohexasiloxane, reason for inclusion: Persistent, bioaccumulating and toxic (Article 57d) Very persistent and very bioaccumulative (Article 57e)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

During polymerization the product releases small quantities of oxime. Ensure adequate ventilation, especially in confined areas. Do not breath vapour.

If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleanser and water.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes .

If a person feels unwell or symptoms of skin irritation appear, consult a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

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

Hitherto no symptoms known.

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

This information is not available.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO₂).**Unsuitable extinguishing media**

High volume water jet

5.2. Special hazards arising from the substance or mixture

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

Combustion may provoke smoke emission. Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breath vapour. Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Contaminated surfaces will be extremely slippery.

To clean the floor and all object contaminated by this material, use Solvent. Cleaning with white-spirit possible.

6.4. Reference to other sections

See also section 7, 8, 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice.

Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

see chapter 8

When using, do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Further information on handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

None known.

Hints on joint storage

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Silicone Sealant/adhesive

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime			
Worker DNEL, long-term		inhalation	systemic	1,164 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,165 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,287 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,0825 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,0825 mg/kg bw/day

PNEC values

CAS No	Substance	Value
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,569 mg/kg
Marine sediment		0,057 mg/kg
Soil		0,04422 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,15 mg/l

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls**Protective and hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

When using, do not eat, drink or smoke. Avoid contact with the skin and the eyes. Wash hands before breaks and at the end of workday.

Eye/face protection

Safety glasses

Hand protection

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Break through time \geq 60 minutes.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection

Protective suit

Respiratory protection

Do not breathe gas/vapour.

Prevent vapour buildup by providing adequate ventilation during and after use.

In case of insufficient ventilation wear suitable respiratory equipment.

Repeated or prolonged exposure: Respirator with a vapour filter (EN 141) - ABEK-filter

Environmental exposure controls

Do not empty into drains or the aquatic environment.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: paste
Colour: various
Odour: characteristic

pH-Value: neutral

Changes in the physical state

Melting point: not applicable
Initial boiling point and boiling range: not applicable
Flash point: not applicable

Explosive properties

not Explosive.

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: > 400 °C

Auto-ignition temperature

not auto-flammable

Density: approx. 1,0 - 1,4 g/cm³

Water solubility: insoluble

Test method**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

moisture.

10.5. Incompatible materials

Reacts with the following substances: humid air and water, Acids, Alkalis (alkalis).

10.6. Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

No data is available on the product itself.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime				
	oral	LD50 mg/kg	1234	rat	
	dermal	LD50 mg/kg	>1782	rat	
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylydyne)trioxime				
	oral	LD50 mg/kg	<2000	Rat	
	dermal	ATE mg/kg	1100		

Irritation and corrosivity

Vapour during processing may be irritating to the respiratory tract and to the eyes.

May cause eye or skin irritation with susceptible persons.

Sensitising effects

Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)

Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.

STOT-single exposure

No data is available on the product itself.

STOT-repeated exposure

No data is available on the product itself.

Aspiration hazard

No data is available on the product itself.

Additional information on tests

During polymerization the product releases small quantities of oxime.

The cured material is odorless and indifferent.

SECTION 12: Ecological information**12.1. Toxicity**

No data is available on the product itself.

Ecological injuries are not known or expected under normal use.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime					
	Acute fish toxicity	LC50 >113 mg/l	96 h	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	
	Acute algae toxicity	ErC50 100 mg/l	72 h	Pseudokirchneriella subcapitata (green algae)	OECD Test Guideline 201	
	Acute crustacea toxicity	EC50 >113 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202	
	Algae toxicity	NOEC 21,5 mg/l	28 d	activated sludge Bacteria		
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylydyne)trioxime					
	Acute fish toxicity	LC50 >117 mg/l	96 h		OECD Test Guideline 203	
	Acute algae toxicity	ErC50 103 mg/l	72 h	Pseudokirchneriella subcapitata (green algae)	OECD Test Guideline 201	
	Acute crustacea toxicity	EC50 117 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202	
	Fish toxicity	NOEC >100 mg/l		Oncorhynchus mykiss (rainbow trout)		
	Algae toxicity	NOEC 37 mg/l	3 d	Pseudokirchneriella subcapitata (green algae) OECD Test Guideline 201		

12.2. Persistence and degradability

silicone bio-degradable.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime	1,25

12.4. Mobility in soil

The product is insoluble and sinks in water.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

None known.

Further information

Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging

Empty remaining contents. Can be landfilled or incinerated, when in compliance with local regulations.

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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.

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.
Marine pollutant: no

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.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
Dodecamethylcyclohexasiloxane**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,3.

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

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- EUH208 Contains the biocide active ingredient "2-octyl-2H-isothiazol-3-one" for protection against mold. Keep out of the reach of children. Contains 2-octyl-2H-isothiazol-3-one, 3-(triethoxysilyl) propylamine. May produce an allergic reaction.
- EUH210 Safety data sheet available on request.

Further Information

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Moreover, national legislation has to be obeyed!

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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