

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 310**

Revision date: 02.05.2023

Product code: 3311

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

EGOSILICON 310

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****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. 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****Chemical characterization**

Mixture: Polydimethylsiloxane + curing agents + fillers + auxiliary agents

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime			< 5 %
	484-460-1		01-2120004323-76	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylydyne)trioxime			1 - < 5 %
	700-810-0		01-2120006148-66	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
37859-55-5	484-460-1	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime	< 5 %
	dermal: LD50 = >1782 mg/kg; oral: LD50 = 1234 mg/kg		
58190-62-8	700-810-0	2-Pentanone, O,O',O''-(ethenylsilylydyne)trioxime	1 - < 5 %
	oral: LD50 = <2000 mg/kg		

**Further Information**

The light color settings of this product contain titanium dioxide. Pay attention to proper use. See further information in sections 6.1 and 7.1.

**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****5.1. Extinguishing media**

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**Suitable extinguishing media**Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO<sub>2</sub>).**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****General advice**

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

If the dried product is removed mechanically, then respirable titanium dioxide particles can be atomized. A fine dust mask FFP3 (EN 149) must therefore be worn to protect the respiratory tract.

**For non-emergency personnel**

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

**For emergency responders**

Wear personal protection 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****For containment**

Cover the sewers.

**For cleaning up**

Contaminated surfaces will be extremely slippery. Use mechanical handling equipment. Dispose of in accordance with local regulations.

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

**Other information**

Ensure adequate ventilation.

**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.

A fine dust mask FFP 3 (EN 149) must be worn when removing dried product residues.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

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.

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**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****DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime			
Worker DNEL, long-term		inhalation	systemic	1,164 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,165 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,287 mg/m <sup>3</sup>
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	Name of agent	Value
37859-55-5	2-Pentanone, O,O',O''-(methylsilylydyne)trioxime	
Environmental compartment		
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,569 mg/kg
Marine sediment		0,057 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,15 mg/l
Soil		0,04422 mg/kg

**Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Individual protection measures, such as personal protective equipment****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 &gt;= 60 minutes.

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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

**Thermal hazards**

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

**Environmental exposure controls**

Do not empty into drains or the aquatic environment.

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

Physical state:	paste
Colour:	various
Odour:	characteristic

	<b>Test method</b>
Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	> 400 °C
pH-Value:	neutral
Water solubility:	insoluble
Density:	approx. 1,4 g/cm <sup>3</sup>
Particle characteristics:	not applicable

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

not Explosive.

Self-ignition temperature

not auto-flammable

**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.

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**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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

No data is available on the product itself.

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	

**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.

**Information on likely routes of exposure**

Skin contact

**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**The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
not applicable**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. 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**

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**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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

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

**Marine transport (IMDG)**

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

Marine pollutant: no

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	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. Maritime transport in bulk according to IMO instruments**

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**

Restrictions on use (REACH, annex XVII):

Entry 75

**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): 1,6,8,9,11,16.

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

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

UN: United Nations

CAS: Chemical Abstracts Service



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DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
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. 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.)*