

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

EGOSILICON 300

Revision date: 13.02.2023

Product code: 330140

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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''-(methylsilylidyne)trioxime			< 5 %
	484-460-1		01-2120004323-76	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
128446-60-6	3-Aminopropyl(methyl)silsequioxan, ethoxy-terminiert			1 - < 5 %
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2; H226 H315 H319			
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime			1 - < 5 %
	700-810-0		01-2120006148-66	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
919-30-2	3-(Triethoxysilyl)propylamin			< 1 %
	213-048-4			
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B; H302 H314 H318 H317			

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''-(methylsilylidyne)trioxime	< 5 %	
	dermal: LD50 = >1782 mg/kg; oral: LD50 = 1234 mg/kg			
58190-62-8	700-810-0	2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime	1 - < 5 %	
	oral: LD50 = <2000 mg/kg			
919-30-2	213-048-4	3-(Triethoxysilyl)propylamin	< 1 %	
	dermal: LD50 = 4076 mg/kg; oral: LD50 = 2660 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.

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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****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****General advice**

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe 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 objects 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.

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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.

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

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''-(methylsilylidyne)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	Name of agent	Value
37859-55-5	2-Pentanone, O,O',O''-(methylsilylidyne)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.

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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 \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

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/heavy
Odour threshold:	not determined

	Test method
Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not applicable
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	not determined
pH-Value:	neutral
Viscosity / kinematic:	not determined
Water solubility:	insoluble
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	approx. 1,0 - 1,4 g/cm ³
Particle characteristics:	not applicable

9.2. Other information

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Information with regard to physical hazard classes

Explosive properties

not Explosive.

Self-ignition temperature

Solid:

not auto-flammable
Exempt

Oxidizing properties

none

Other safety characteristics

Viscosity / dynamic:

not determined

Further Information

The product is: 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.

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. Health injuries are not known or expected under normal use.

ATEmix calculated

ATE (oral) 16498,5 mg/kg; ATE (dermal) 18803,4 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
37859-55-5	2-Pentanone, O,O',O''-(methylsilylidyne)trioxime				
	oral	LD50 mg/kg	1234	rat	
	dermal	LD50 mg/kg	>1782	rat	
58190-62-8	2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime				
	oral	LD50 mg/kg	<2000	Rat	
919-30-2	3-(Triethoxysilyl)propylamin				
	oral	LD50 mg/kg	2660	rat	OECD Test Guideline 401
	dermal	LD50 mg/kg	4076	rabbit	OECD Test Guideline 402

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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

Specific effects in experiment on an animal

No data is available on the product itself.

Practical experience

Health injuries are not known or expected under normal use.

11.2. Information on other hazards**Further information**

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 assessmentThe 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)**

- 14.1. UN number or ID 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 or ID 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 or ID 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. 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 40**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): 2,6,7,8,9,11,16.

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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, 3-(Triethoxysilyl)propylamin. 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.)