

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 1 of 9

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

EGOSILICON 460

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**

+49 55119240 (24h/7d)

**number:**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 3-(Triethoxysilyl)propylamin. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**2.3. Other hazards**

Ethanol is classified in terms of physical hazards and health hazards. The rate of hydrolysis and thus the relevance for the hazard potential of the product are highly dependent on the specific conditions.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Polydimethylsiloxane + curing agents + fillers + auxiliary agents

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 2 of 9

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
128446-60-6	3-Aminopropyl(methyl) silsesquioxan, ethoxy-terminiert			< 5 %
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2A; H226 H315 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		
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**

In case of accident or if you feel unwell, seek medical advice immediately (show the packaging, label or safety data sheet if possible).

**After inhalation**

Product can not be inhaled under normal circumstances.

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

**After contact with eyes**

Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

**After ingestion**

Let water be swallowed in little sips (dilution effect). Do not induce vomiting.

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

Relevant information can be found in other parts of this section.

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

Further information:  
See also section 11

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Atomized water. alcohol resistant foam. Extinguishing powder. Sand. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

High power water jet.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 3 of 9

**5.2. Special hazards arising from the substance or mixture**

In case of fire hazardous combustion gases or vapors possible. Exposure to combustion products can be a health hazard! Hazardous fire products: toxic and very toxic fumes.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Keep away from unprotected people. Keep upwind.

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

Secure the area. Wear personal protection equipment. See protective measures under point 7 and 8. Keep unprotected people away.

Remove from all sources of ignition. Vacuum off vapors. Observe Ex protection. Special skid risk by leaking/spilling product.

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 allow contact with soil, surface or ground water. Close the leak if this is possible without danger.

Prevent fire extinguishing water from contaminating surface water or the ground water system. Dispose of in properly labeled containers. When leaking into waters, sewers or underground, notify competent authority.

**6.3. Methods and material for containment and cleaning up****For containment**

Cover the sewers.

**For cleaning up**

To avoid adhesion, dust the surface with sand or bleaching earth and absorb material mechanically. Sweep up or scrape up spilled material and place in a special chemical waste bin. Remove any remaining slippery surface with detergent / soap solution or other biodegradable cleaner. To improve the grip, apply sand or other inert, granular material.

**Other information**

Ensure adequate ventilation.

**6.4. Reference to other sections**

For personal protection see section 8.

See also section 8, 13

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

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

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

**Advice on protection against fire and explosion**

Product may release small quantities of ethanol. Vapours may form explosive mixture with air. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges. Cool endangered containers with water spray.

**Advice on general occupational hygiene**

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 4 of 9

smoke. Avoid contact with the skin and the eyes.

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

Pay attention to local official regulations

**Hints on joint storage**

Pay attention to local official regulations

**Further information on storage conditions**

Protect from moisture. 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****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.

butyl-rubber: Glove thickness > 0,3 mm; Breakthrough time >480 minutes.

Nitrile rubber: Glove thickness > 0,1 mm; Breakthrough time >480 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.

**Respiratory protection**

If inhalation exposure above the workplace exposure limit can not be excluded, appropriate respiratory protective equipment should be used. Suitable respiratory protection: Respirator with full face mask, in accordance with recognized standards such as EN 136. Recommended filter type: ABEK gas filter (certain inorganic, organic and acid gases and vapors, ammonia / amines), in accordance with recognized standards such as EN 14387 The wearing time limit for respiratory protection as well as instructions of the device manufacturer are to be observed.

**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:	alcoholic

**Test method**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 5 of 9

Melting point/freezing point:	Exempt
Boiling point or initial boiling point and boiling range:	Exempt ASTM D 1120
Lower explosion limits:	Exempt
Upper explosion limits:	Exempt
Flash point:	Exempt
Auto-ignition temperature:	> 400 °C DIN 51794
Decomposition temperature:	300 °C
pH-Value:	not applicable
Water solubility:	insoluble
Vapour pressure:	not determined
Density (at 23 °C):	1,03 g/cm <sup>3</sup>
Particle characteristics:	not applicable

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

Oxidizing properties  
no

**Other safety characteristics**

Viscosity / dynamic:  
(at 23 °C) > 1000000 mPa·s Brookfield

**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.

**10.4. Conditions to avoid**

Exposure to moisture. Keep away from heat and sources of ignition.

**10.5. Incompatible materials**

Water. Acids and bases.

**10.6. Hazardous decomposition products**

Ethanol.

Upon prolonged heating above 150 °C hazardous decomposition products may be released. This product may release the following: Formaldehyde

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****ATEmix tested**

	Dose	Species	Source
LD50, oral	>2000 mg/kg	rat	Read-across (Analogy)
LD50, dermal	>2000 mg/kg	rat	Read-across (Analogy)

**ATEmix calculated**

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 6 of 9

**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
919-30-2	3-(Triethoxysilyl)propylamin				
	oral	LD50 2660 mg/kg	rat	OECD Test Guideline 401	
	dermal	LD50 4076 mg/kg	rabbit	OECD Test Guideline 402	

**Irritation and corrosivity**

Based on the available data, clinically relevant skin and eye irritation is not expected. Temporary symptoms of irritation can not be excluded by mechanical removal of the sticky product after contact.

**Sensitising effects**

No sensitisation responses were observed.

**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**

Due to the viscosity, this product does not present an aspiration hazard.

**Information on likely routes of exposure**

Skin contact

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

product of hydrolysis Ethanol.

Ethanol - Acc. to literature Slightly irritating to skin and mucous membranes, degreasing skin, narcotic. Liver injury may occur.

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

The classification of this material with regard to environmental hazards is based on data on the ingredients and the extractable amount Biocide in simulation tests in water. Harmful to aquatic organisms is not expected.

**12.2. Persistence and degradability**

: Non-biodegradable.

product of hydrolysis Ethanol: Readily biodegradable.

**12.3. Bioaccumulative potential**

Polymer component Bioaccumulation is unlikely.

**12.4. Mobility in soil**

: Insoluble 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.

**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**

Ecological injuries are not known or expected under normal use.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 7 of 9

**Further information**

May be separated mechanically in waste water plants.

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

Recommendation: Material that can not be recycled, reprocessed or recycled should be disposed of in an approved facility in accordance with national, state and local regulations. Depending on the regulations, waste treatment methods may include, for example, disposal in a landfill or incineration.

For this product, no waste code number according to the European Waste Catalog (AVV) can be specified, since only the intended use by the consumer allows an allocation. The waste code number must be determined within the EU in consultation with the disposal company.

**Contaminated packaging**

recommendation: Packaging must be completely emptied (drip-free, free from trickle, spatula-clean).

Packaging must preferably be reused or recycled in compliance with the applicable local / national regulations.

Non-cleanable packaging must be disposed of in the same way as the substance.

**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.

**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**

Relevant information in other sections must be observed.

**14.7. Maritime transport in bulk according to IMO instruments**

There is no intended bulk transport in tankers.

**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

**Additional information**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 8 of 9

Chemicals Prohibition Ordinance (ChemVerbotsV): This product is not subject to the Chemicals Prohibition Ordinance when placed on the market in Germany.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 9,12.

**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

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

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

**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.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**EGOSILICON 460**

Revision date: 21.11.2023

Product code: 366

Page 9 of 9

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
EUH208	Contains 3-(Triethoxysilyl)propylamin. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Further Information**

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.)*