

# EU safety data sheet

**Trade name:** MATTES SILICON

**Product no.:** MSI

**Current version :** 3.0.0, issued: 14.02.2023

**Replaced version:** 2.1.0, issued: 09.03.2022

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**MATTES SILICON**

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

**Relevant identified uses of the substance or mixture**

Chemical product for building, modernising and repairing.

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

LUGATO GmbH & Co. KG

Großer Kamp 1

D-22885 Barsbüttel

Telephone no. +49 (0)40 694 07-0

Fax no. +49 (0)40 694 07-109 + 110

**Information provided by / telephone**

Department TS, telephone +49 40 694 07-222

e-mail: technik@lugato.de

**Advice on Safety Data Sheet**

technik@lugato.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

### 2.2 Label elements

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

**Hazard statements (EU)**

EUH208

Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

**Chemical characterization**

Permanently elastic joint sealant

**Hazardous ingredients**

No	Substance name	Additional information	
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	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>triacetoxymethylsilane</b>			
	17689-77-9 241-677-4 - 01-2119881778-15	Acute Tox. 4; H302 EUH014 Skin Corr. 1B; H314 Eye Dam. 1; H318	< 5.00	wt%
2	<b>octamethylcyclotetrasiloxane</b>			
	556-67-2 209-136-7 014-018-00-1 -	Repr. 2; H361f*** Aquatic Chronic 1; H410	< 0.10	wt%
3	<b>2-octyl-2H-isothiazol-3-one</b>			
	26530-20-1 247-761-7 613-112-00-5 -	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Chronic 1; H410 Aquatic Acute 1; H400 EUH071	< 0.10	wt%
4	<b>Silicon dioxide (amorphous)</b>			
	112945-52-5 231-545-4 - 01-2119379499-16	-	>= 5.00 - < 10.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\* , \*\* , \*\*\* , \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	-	-	M = 10
3	-	Skin Sens. 1A; H317: C >= 0.0015%	M = 100	M = 100

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Ensure supply of fresh air.

#### After skin contact

Remove with a cloth or paper. Wash off immediately with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Seek medical advice immediately. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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## **Suitable extinguishing media**

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

## **Unsuitable extinguishing media**

High power water jet

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

None known.

## **5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

#### **For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

### **6.3 Methods and material for containment and cleaning up**

Collect mechanically. Send in suitable containers for recovery or disposal.

### **6.4 Reference to other sections**

No data available.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Ensure adequate ventilation. Refer to protective measures listed in section 8.

#### **General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Wash hands before breaks and after work.

#### **Advice on protection against fire and explosion**

Keep away from sources of heat and ignition.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Technical measures and storage conditions**

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

#### **Requirements for storage rooms and vessels**

Store product in closed containers. Always keep in containers of same material as the original.

#### **Incompatible products**

Do not store together with: Acids; Alkalis; Alcohols

### **7.3 Specific end use(s)**

No data available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	Silicon dioxide (amorphous)	112945-52-5	231-545-4
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Silica, amorphous inhalable dust		

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	WEL long-term (8-hr TWA reference period)	6	mg/m <sup>3</sup>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Silica, amorphous respirable dust			
	WEL long-term (8-hr TWA reference period)	2.4	mg/m <sup>3</sup>

## DNEL, DMEL and PNEC values

### DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	triacetoxymethylsilane			17689-77-9 241-677-4
	inhalative	Short term (acute)	local	32.5 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	32.5 mg/m <sup>3</sup>

### DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	triacetoxymethylsilane			17689-77-9 241-677-4
	inhalative	Short term (acute)	local	65 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	10.8 mg/m <sup>3</sup>

### PNEC values

No	Substance name			CAS / EC no
	ecological compartment	Type		Value
1	triacetoxymethylsilane			17689-77-9 241-677-4
	water	fresh water		0.2 mg/L
	with reference to: silane triol (product of hydrolysis)			
	water	marine water		0.02 mg/L
	with reference to: silane triol (product of hydrolysis)			
	water	Aqua intermittent		1.7 mg/L
	with reference to: silane triol (product of hydrolysis)			
	water	fresh water sediment		0.16 mg/kg moist mass
	with reference to: silane triol (product of hydrolysis)			
	water	marine water sediment		0.016 mg/kg moist mass
	with reference to: silane triol (product of hydrolysis)			
	soil	-		0.031 mg/kg moist mass
	with reference to: silane triol (product of hydrolysis)			
	sewage treatment plant	-		1 mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

Not necessary, but do not inhale vapours.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

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Appropriate Material

Nitrile impregnated protective gloves

**Other**

Light protective clothing

**Environmental exposure controls**

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
pasty	
<b>Colour</b>	
various colour shades	
<b>Odour</b>	
pungent; acidic	
<b>pH value</b>	
cannot be determined	
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
no data available	
<b>Ignition temperature</b>	
No data available	
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	1.03 g/cm <sup>3</sup>
Reference temperature	20 °C
<b>Solubility in water</b>	
Comments	insoluble
<b>Solubility</b>	
No data available	

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## Partition coefficient n-octanol/water (log value)

No data available

## Kinematic viscosity

Value	150	Pa*s
Type	dynamic	
Comments	at a shear force of 20/s	

## Particle characteristics

No data available

## 9.2 Other information

### Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Acids; Alkalis; Alcohols

### 10.6 Hazardous decomposition products

Under the action of moisture (atmospheric moisture) product splits off a small quantity of acetic acid.

## SECTION 11: Toxicological information

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

#### Acute oral toxicity (result of the ATE calculation for the mixture)

No	Product Name
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1	MATTES SILICON
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Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).
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#### Acute oral toxicity

No data available

#### Acute dermal toxicity

No data available

#### Acute inhalational toxicity

No data available

#### Skin corrosion/irritation

No	Product Name
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1	MATTES SILICON
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Species	rabbit
Method	OECD 404
Source	ECHA
Comments	The study has indicated that the CAS No 17689-77-9 is not irritating if it is contained in a silicone material to about 5%.
Evaluation	non-irritant

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Serious eye damage/irritation	
No	Product Name
1	MATTES SILICON
Species	rabbit
Method	OECD 405
Source	ECHA
Comments	The study has indicated that the CAS No 17689-77-9 is not irritating if it is contained in a silicone material to about 5%.
Evaluation	non-irritant

Respiratory or skin sensitisation	
No	Product Name
1	MATTES SILICON
Route of exposure	Skin
Source	Manufacturer
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.	

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)	
No	Product Name
1	MATTES SILICON
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Toxicity to fish (chronic)	
No	Product Name
1	MATTES SILICON
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Toxicity to Daphnia (acute)	
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No	Product Name
1	MATTES SILICON
EC50	10 - 100 mg/l
Duration of exposure	48 h
Species	Daphnia
Method	OECD 202
Source	Manufacturer

#### Toxicity to Daphnia (chronic)

No data available

#### Toxicity to algae (acute)

No	Product Name
1	MATTES SILICON
EC50	> 100 mg/l
Duration of exposure	72 h
Species	Algae
Method	OECD 201
Source	Manufacturer

#### Toxicity to algae (chronic)

No data available

#### Bacteria toxicity

No data available

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 Other information

##### Other information

Do not discharge product unmonitored into the environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### Packaging

Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.



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## 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2-octyl-2H-isothiazol-3-one	26530-20-1	247-761-7	75
2	dibutyltin di(acetate)	1067-33-0	213-928-8	75
3	octamethylcyclotetrasiloxane	556-67-2	209-136-7	75

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

##### **REGULATION (EU) No 528/2012 concerning the making available on the market and use of biocidal products**

4,5-dichloro-2-octyl-2H-isothiazol-3-one: 0.5 g / kg

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### **Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH014	Reacts violently with water.
EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.

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H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## **Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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