

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Structosil 1914  
Revision date : 18.08.2021  
Print date : 18.08.2021

Version (Revision) : 4.0.0 (3.0.1)

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

### 1.1 Product identifier

Structosil 1914

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

#### Relevant identified uses

##### Products Category [PC]

PC9 - Coatings and paints, fillers, putties, thinners

#### Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG  
www.brillux.de

**Street :** Weseler Straße 401

**Postal code/city :** D - 48163 Münster

**Telephone :** +49 (0)251-7188-0

**Telefax :** +49 (0)251-7188-280

#### Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

### 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

None

#### Additional information

This product is not dangerous according to the regulation (EC) No. 1272/2008 (CLP).

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

#### Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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### Description

Silicate paint;  
Composition:  
Potassium water glass, styrene-acrylic-copolymer dispersion, titanium dioxide, calcium carbonate, silicates, water and additives.

### Hazardous ingredients

TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Carc. 2 ; H351i

SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; REACH No. : 01-2119456888-17 ; EC No. : 215-199-1; CAS No. : 1312-76-1

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

#### Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

#### In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

#### After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

#### After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

This product is not flammable. In case of a fire extinguish surroundings as indicated.

#### Unsuitable extinguishing media

None known.

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

#### Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

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When extinguishing fires, use breathing apparatus with an independent source of air.

#### **5.4 Additional information**

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

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

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

Refer to protective measures listed in sections 7 and 8. The product produced in combination with water slippery surfaces.

#### **6.2 Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

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

##### **For cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Remove residue by rinsing thoroughly with water. Thoroughly clean contaminated objects and floors and observe environmental regulations.

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

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

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

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

##### **Protective measures**

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. For personal protection see Section 8. Keep out of reach of children. Read label before use.

##### **Measures to prevent fire**

This product is not flammable. Cool endangered containers with water.

##### **Advices on general occupational hygiene**

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

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

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

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Protect against frost. Keep out of the reach of children.

##### **Hints on joint storage**

Store away from foodstuffs.

**Storage class (TRGS 510) :** 12

##### **Further information on storage conditions**

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

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

For using the product observe the information in the Technical data sheet of the product.

##### **Industrial sector specific solutions**

**GISCODE :** Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): BSW10

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

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## 8.1 Control parameters

### DNEL-/PNEC-values

#### DNEL/DMEL

Limit value type :	DNEL/DMEL (Consumer) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,74 mg/kg
Limit value type :	DNEL/DMEL (Consumer) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1,38 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (Consumer) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,74 mg/kg
Limit value type :	DNEL/DMEL (Worker) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	1,49 mg/kg
Limit value type :	DNEL/DMEL (Worker) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	5,61 mg/m <sup>3</sup>
<b>PNEC</b>	
Limit value type :	PNEC (Aquatic, freshwater) ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
Exposure route :	Water (Including sewage plant)
Limit value :	7,5 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
Observe data available of section 7.

### Personal protection equipment

#### Eye/face protection

Use protection glasses in case of spattering.

#### Skin protection

##### Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

##### Body protection

Using protective clothing. If the product must be sprayed, use a disposable protective suit.

#### Respiratory protection

Breathing protection equipment is not necessary by brush or roll application of the Product in good ventilated rooms.  
By spraying: Use the combination filter mask A2/P2. Do not breathe gas or spray.

### General information

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Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe gas or spray.

## Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid.

Colour : conformable to product designation.

#### Odour

Characteristic.

#### Safety characteristics

Initial boiling point and boiling range :	( 1013 hPa )	not applicable	
Flash point :		not applicable	
Auto-ignition temperature :		not applicable	
Vapour pressure :	( 50 °C )	not determined	
Density :	( 20 °C )	approx. 1,4 - 1,5	g/cm <sup>3</sup>
Solvent separation test :	( 20 °C )	not applicable	
pH :		approx. 10,5 - 11,4	
Flow time :	( 20 °C )	not applicable	DIN-cup 4 mm
Viscosity :	( 20 °C )	thixotropic	
VOC-value :		< 1	g/l

### 9.2 Other information

Other physical and chemical data have not been determined.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

### 10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

### 10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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### Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : not relevant  
Parameter : LD50 ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg

### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : not relevant

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation (vapour)  
Effective dose : not relevant

### Corrosion

Based on available data the classification criteria according to Regulation (EC) No 1272/2008 [CLP] are not fulfilled.

### Respiratory or skin sensitisation

A sensitizing effect by the product is not known.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

### STOT-single exposure

No risk expected.

### STOT-repeated exposure

No risk expected.

### Aspiration hazard

No risk expected.

## 11.4 Other adverse effects

### Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

## 11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

## SECTION 12: Ecological information

### 12.1 Toxicity

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

### Aquatic toxicity

#### Acute (short-term) fish toxicity

Parameter : LC50 ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )  
Species : Leuciscus idus (golden orfe)  
Effective dose : > 146 mg/l  
Exposure time : 48 h

#### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )

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Species : Daphnia magna (Big water flea)  
Effective dose : > 146 mg/l  
Exposure time : 24 h

### 12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

### 12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.  
No information about the individual components is available either.

### 12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.  
A penetrating into soil, waters and sewage system should be prevented.

### 12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.  
The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

##### Waste code product

Disposal-definition No. (AVV-Code): 08 01 12 Paint and varnish waste with the exception of the ones who come under 08 01 11 \*.

##### Waste treatment options

##### Appropriate disposal / Product

Packaging with not dry uped residues have to dropped at official collecting sites. Do not empty into waters or drains.  
Packaging with dry uped residues can be disposed together with household garbage or building site garbage.

##### Appropriate disposal / Package

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

### SECTION 15: Regulatory information

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

##### EU legislation

##### Other regulations (EU)

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:

Category a, type Wb;

VOC limiting value of the category for 2010: 30 g/l.

This product contains max. 1 g/l VOC.

##### National regulations

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

##### Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1.

#### 15.2 Chemical safety assessment

A chemical safety assessment was not carried out.

### SECTION 16: Other information

#### 16.1 Indication of changes

02. Label elements

#### 16.2 Abbreviations and acronyms

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)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif au transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report

DNEL: Derived No Effect Level

EC: European Commission

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWG: European Waste Catalogue

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

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

LOAEL: Lowest Observed Adverse Effect Level



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LOEL: Lowest observable effect level  
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)  
MARPOL: Convention for the Prevention of Marine Pollution from Ships  
MVZ: molar ratio  
n.a.: Not applicable  
n.d.: Not determined  
n.r.: Not relevant  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
OEL: Occupational Exposure Limit  
PBT: Persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RCP: Reciprocal calculation procedure  
REACH: Registration, Evaluation and Authorization of Chemical  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
SVHC: Substance of Very High Concern  
TLV - TWA: Threshold Limit Value - Time Weighted Average  
VOC: Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351i	Suspected of causing cancer if inhaled.

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.