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

1.1 Product identifier
Kalisil 1909

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

Relevant identified uses
Product Categories [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.

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
Description
Silicate paint;
Composition:
Potassium water glass, styrene-acrylic-copolymer dispersion, titanium dioxide, inorganic coloured pigments (depending on the shade), calcium carbonate, silicates, water and additives.

**Hazardous ingredients**

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

Weight fraction : ≥ 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**

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): BSW40

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and 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/m³
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/m³

PNEC
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 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 sprayed, use a protective clothing incl. for the head / face.

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

General health and safety measures
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 vapour.

Environmental exposure controls
The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform
applicable 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 relevant basis data**

- **Initial boiling point and boiling range:** Not applicable
- **Flash point:** Not applicable
- **Ignition temperature:** Not applicable
- **Vapour pressure:** Not determined
- **Density:** Approx. 1.45 - 1.55 g/cm³
- **Solvent separation test:** Not applicable
- **pH:** Approx. 11 - 11.4
- **Flow time:** Not applicable DIN-cup 4 mm
- **Viscosity:** 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 effects**

- 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

Irritant and corrosive effects
Irritation:
- Skin contact: May cause slightly irritant.
- Eye contact: May cause slightly irritant.

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-Regualtion), 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) daphnia toxicity
Parameter : EC50 ( SILICID ACID, POTASSIUM SALT, MVZ > 3,2 ; CAS No. : 1312-76-1 )
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 its 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 data available about the potential of the product concerning its 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
Not relevant because the product in type of delivery does not transport in bulks according to the Internationa 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
None

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 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
EWC: 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
LOEL: Lowest observable effect level
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) MARPOL: Convention for the Prevention of Marine Pollution from Ships
Safety Data Sheet  
according to Regulation (EC) No. 1907/2006 (REACH)

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Kalisil 1909</th>
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<tbody>
<tr>
<td>Revision date</td>
<td>04.11.2019</td>
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<td>Print date</td>
<td>04.11.2019</td>
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<tr>
<th>MVZ: molar ratio</th>
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<tr>
<td>n.a.: Not applicable</td>
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<tr>
<td>n.d.: Not determined</td>
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<tr>
<td>n.r.: Not relevant</td>
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<tr>
<td>NLP: No Longer Polymers</td>
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<td>NOAEC: No Observed Adverse Effect Concentration</td>
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<tr>
<td>NOAEL: No Observed Adverse Effect Level</td>
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<tr>
<td>NOEC: No Observed Effect Concentration</td>
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<td>NOEL: No Observed Effect Level</td>
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<td>OEL: Occupational Exposure Limit</td>
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<td>PBT: Persistent, bioaccumulative, toxic</td>
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<td>PNEC: Predicted No Effect Concentration</td>
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<td>RCP: Reciprocal calculation procedure</td>
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<td>REACH: Registration, Evaluation and Authorization of Chemical</td>
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<td>RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)</td>
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<td>STEL: Short-term Exposure Limit</td>
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<td>SVHC: Substance of Very High Concern</td>
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<td>TLV - TWA: Threshold Limit Value - Time Weighed Average</td>
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<td>VOC: Volatile Organic Compounds</td>
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<td>vPvB: Very persistent, very bioaccumulative.</td>
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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.

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.