

# EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31  
Revision: 21.02.2023

Version number 2 (replaces version 1)

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Printing date: 14.02.2019

**Silaform® 85 K**

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

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### 1.1 Identification of the substance or preparation:

Commercial product name: Silaform® 85 K

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

Application of the substance / the mixture: Product for dental technology

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

Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH  
Street / mailbox: Im Klei 26  
Country code. / postal code / city: DE - 38644 Goslar  
Phone: Tel.: +49 (0) 53 21 / 37 79 – 0  
Fax: Fax: +49 (0) 53 21 / 38 96 32  
E-mail / Website: [info@siladent.de](mailto:info@siladent.de) - [www.siladent.de](http://www.siladent.de)  
Further information obtainable from: SILADENT Dr. Böhme & Schöps GmbH

### 1.4 Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.

### 2.2 Label elements

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

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

### 2.3 Other hazards

**Results of PBT and vPvB assessment:** This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### **Determination of endocrine-disrupting properties:**

Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| <b>Description:</b>            | Mixture of substances listed below with non-hazardous additions. |
| <b>Dangerous components:</b>   | Void.                                                            |
| <b>Additional information:</b> | For the wording of the listed risk phrases refer to section 16.  |

## SECTION 4: First aid measures

|                                                                                        |                                                           |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>4.1 Description of first aid measures</b>                                           |                                                           |
| <b>General information:</b>                                                            | No special measures required.                             |
| <b>After inhalation:</b>                                                               | Supply fresh air; consult doctor in case of complaints.   |
| <b>After skin contact:</b>                                                             | Generally the product does not irritate the skin.         |
| <b>After eye contact:</b>                                                              | Rinse opened eye for several minutes under running water. |
| <b>After swallowing:</b>                                                               | If symptoms persist consult doctor.                       |
| <b>4.2 Most important symptoms and effects, both acute and delayed:</b>                | No further relevant information available.                |
| <b>4.3 Indication of any immediate medical attention and special treatment needed:</b> | No further relevant information available.                |

## SECTION 5: Firefighting measures

|                                                                   |                                                                    |
|-------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>5.1 Extinguishing media</b>                                    |                                                                    |
| <b>Suitable extinguishing agents:</b>                             | Use fire extinguishing methods suitable to surrounding conditions. |
| <b>5.2 Special hazards arising from the substance or mixture:</b> | No further relevant information available.                         |
| <b>5.3 Advice for firefighters</b>                                |                                                                    |
| <b>Protective equipment:</b>                                      | No special measures required.                                      |

## SECTION 6: Accidental release measures

|                                                                                |                                                                                                                                                             |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Not required.                                                                                                                                               |
| <b>6.2 Environmental precautions:</b>                                          | Do not allow to enter sewers/ surface or ground water.                                                                                                      |
| <b>6.3 Methods and material for containment and cleaning up:</b>               | Absorb with liquid-binding material (sand, acid binders, universal binders, sawdust).                                                                       |
| <b>6.4 Reference to other sections:</b>                                        | See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment. See Section 13 for disposal information. |

## SECTION 7: Handling and storage

|                                                                         |                               |
|-------------------------------------------------------------------------|-------------------------------|
| <b>7.1 Precautions for safe handling:</b>                               | No special measures required. |
| <b>Information about fire - and explosion protection:</b>               | No special measures required. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> |                               |
| <b>- Storage:</b>                                                       |                               |

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**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

**Appropriate engineering controls:** No further data; see item 7.

#### Individual protection measures, such as personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

## SECTION 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

#### General Information

**Physical state:** Fluid  
**Colour:** According to product specification  
**Odour:** Characteristic  
**Odour threshold:** Not determined.  
**Melting point/freezing point:** Undetermined.

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|------------------------------------------------------------------|-----------------------------------|
| <b>Boiling point or initial boiling point and boiling range:</b> | Undetermined.                     |
| <b>Flammability:</b>                                             | Not applicable.                   |
| <b>Lower and upper explosion limit</b>                           |                                   |
| <b>Lower:</b>                                                    | Not determined.                   |
| <b>Upper:</b>                                                    | Not determined.                   |
| <b>Flash point:</b>                                              | 151 °C                            |
| <b>Ignition temperature:</b>                                     | Not determined.                   |
| <b>Decomposition temperature:</b>                                | Not determined.                   |
| <b>pH:</b>                                                       | Not determined.                   |
| <b>Viscosity</b>                                                 |                                   |
| <b>Kinematic viscosity:</b>                                      | Not determined.                   |
| <b>Dynamic:</b>                                                  | Not determined.                   |
| <b>Solubility:</b>                                               |                                   |
| <b>water:</b>                                                    | Not miscible or difficult to mix. |
| <b>Partition coefficient n-octanol/water (log value):</b>        | Not determined.                   |
| <b>Vapour pressure:</b>                                          | Not determined.                   |
| <b>Density and/or relative density</b>                           |                                   |
| <b>Density:</b>                                                  | Not determined.                   |
| <b>Relative density:</b>                                         | Not determined.                   |
| <b>Vapour density:</b>                                           | Not determined.                   |

## 9.2 Other information

|                                                                                     |                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Appearance:</b>                                                                  |                                               |
| <b>Form:</b>                                                                        | Fluid                                         |
| <b>Important information on protection of health and environment, and on safety</b> |                                               |
| <b>Auto-ignition temperature:</b>                                                   | Product is not selfigniting.                  |
| <b>Explosive properties:</b>                                                        | Product does not present an explosion hazard. |
| <b>Solvent content:</b>                                                             |                                               |
| <b>VOC (EC):</b>                                                                    | 0.00 %                                        |
| <b>Solids content:</b>                                                              | 83.2 %                                        |
| <b>Change in condition</b>                                                          |                                               |
| <b>Evaporation rate:</b>                                                            | Not determined.                               |
| <b>Information with regard to physical hazard classes</b>                           |                                               |
| <b>Explosives:</b>                                                                  | Void                                          |
| <b>Flammable gases:</b>                                                             | Void                                          |
| <b>Aerosols:</b>                                                                    | Void                                          |
| <b>Oxidising gases:</b>                                                             | Void                                          |
| <b>Gases under pressure:</b>                                                        | Void                                          |
| <b>Flammable liquids:</b>                                                           | Void                                          |
| <b>Flammable solids:</b>                                                            | Void                                          |
| <b>Self-reactive substances and mixtures:</b>                                       | Void                                          |
| <b>Pyrophoric liquids:</b>                                                          | Void                                          |
| <b>Pyrophoric solids:</b>                                                           | Void                                          |
| <b>Self-heating substances and mixtures:</b>                                        | Void                                          |
| <b>Substances and mixtures, which emit flammable gases in contact with water:</b>   | Void                                          |
| <b>Oxidising liquids:</b>                                                           | Void                                          |
| <b>Oxidising solids:</b>                                                            | Void                                          |
| <b>Organic peroxides:</b>                                                           | Void                                          |
| <b>Corrosive to metals:</b>                                                         | Void                                          |
| <b>Desensitised explosives</b>                                                      | Void                                          |

## :SECTION 10: Stability and reactivity

|                         |                                            |
|-------------------------|--------------------------------------------|
| <b>10.1 Reactivity:</b> | No further relevant information available. |
|-------------------------|--------------------------------------------|

## 10.2 Chemical stability

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**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

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### 11.1 Information on toxicological effects

**Acute toxicity:** Based on available data, the classification criteria are not met.

| LD/LC50 values relevant for classification: |      |                    |
|---------------------------------------------|------|--------------------|
| Natriumaluminosilikat                       |      |                    |
| Oral                                        | LD50 | >2,000 mg/kg (rat) |

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

#### Additional toxicological information:

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

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

**Endocrine disrupting properties:** Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

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None of the ingredients is listed.

## SECTION 12: Ecological information

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- |                                                 |                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1 Toxicity</b>                            |                                                                                                                                                                                                                                                                                                                      |
| <b>Aquatic toxicity:</b>                        | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.2 Persistence and degradability:</b>      | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.3 Bioaccumulative potential:</b>          | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.4 Mobility in soil</b>                    | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.5 Results of PBT and vPvB assessment:</b> | Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. |
| <b>PBT:</b>                                     | Not applicable.                                                                                                                                                                                                                                                                                                      |
| <b>vPvB:</b>                                    | Not applicable.                                                                                                                                                                                                                                                                                                      |
| <b>12.6 Endocrine disrupting properties:</b>    | Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. |
| <b>12.7 Other adverse effects:</b>              |                                                                                                                                                                                                                                                                                                                      |
| <b>Additional ecological information:</b>       |                                                                                                                                                                                                                                                                                                                      |
| <b>General notes:</b>                           | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water<br>Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.                                                                                                           |

## SECTION 13: Disposal considerations

- |                                     |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| <b>13.1 Waste treatment methods</b> |                                                             |
| <b>Recommendation:</b>              | Smaller quantities can be disposed of with household waste. |
| <b>Uncleaned packaging</b>          |                                                             |
| <b>Recommendation:</b>              | Disposal must be made according to official regulations.    |

## SECTION 14: Transport information

- |                                        |      |
|----------------------------------------|------|
| <b>14.1 UN-Number</b>                  |      |
| <b>ADR, ADN, IMDG, IATA:</b>           | Void |
| <b>14.2 UN proper shipping name</b>    |      |
| <b>ADR, ADN, IMDG, IATA:</b>           | Void |
| <b>14.3 Transport hazard class(es)</b> |      |
| <b>ADR, ADN, IMDG, IATA</b>            |      |
| <b>Class:</b>                          | Void |
| <b>14.4 Packing group</b>              |      |
| <b>ADR, IMDG, IATA:</b>                | Void |

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**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user:** Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

**UN "Model Regulation":** Void

## SECTION 15: Regulatory information

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I:** None of the ingredients is listed.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:** None of the ingredients is listed.

**REGULATION (EU) 2019/1148: Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):** None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS:** None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors:** None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:** None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Date of previous version:** 25.05.2022

**Version number of previous version:** 1

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic


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## Sources

The data for the hazardous ingredients were taken respectively from the last version of Safety Data Sheets of suppliers.

**\* Data compared to the previous version altered.**