

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 1 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

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

*

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 - 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

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 2 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

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

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.
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 agents:	Use fire extinguishing methods suitable to surrounding conditions.
5.2 Special hazards arising from the substance or mixture:	No further relevant information available.
5.3 Advice for firefighters	
Protective equipment:	No special measures required.

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

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

Further information about storage conditions: None.

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

8.1 Control parameters

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

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

Respiratory protection: Not required.

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.
----------------------------	---

Eye protection: Goggles recommended during refilling.

*

General Information

Physical state:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and	Undetermined.

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 4 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

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

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 5 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

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

*

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.

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 6 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

None of the ingredients is listed.

SECTION 12: Ecological information

*

- | | |
|---|---|
| 12.1 Toxicity | |
| Aquatic toxicity: | No further relevant information available. |
| 12.2 Persistence and degradability: | No further relevant information available. |
| 12.3 Bioaccumulative potential: | No further relevant information available. |
| 12.4 Mobility in soil | No further relevant information available. |
| 12.5 Results of PBT and vPvB assessment: | 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.

PBT: Not applicable.
vPvB: Not applicable. |
| 12.6 Endocrine disrupting properties: | 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. |
| 12.7 Other adverse effects: | |
| Additional ecological information: | |
| General notes: | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. |

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

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

EG-MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

SILADENT

Page 7 of 8

Revision: 21.02.2023

Version number 2 (replaces version 1)

Printing date: 14.02.2019

Silaform® 85 K

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

according to 1907/2006/EC, Article 31

Page 8 of 8

Printing date: 14.02.2019

[illegible]

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.**

EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31

Revision: 21.02.2023

Version number 3

page 1 of 10

Date of issue: 10.05.2023

Silaform® hardener

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

1.1 Product identifier

Commercial product name: Silaform® hardener

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

Application of the substance / the mixture: Technical activator for C-silicones

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 - 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



GHS08 health hazard

Repr. 1B

H360D

May damage the unborn child.

STOT RE 2

H373

May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.



GHS07

Skin Irrit. 2

H315

Causes skin irritation.

Skin Sens. 1

H317

May cause an allergic skin reaction.

Aquatic Chronic 3

H412

Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07 GHS08

Signal word:

Danger

Hazard-determining components of labelling:

dioctyltin dilaurate
Dioctylzinnbisacetylacetonat (CAS 54068-28-9)
Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3)
Aroma mixture

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H360D May damage the unborn child.

H373 May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.

EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31

Revision: 21.02.2023

Version number 3

page 2 of 10

Date of issue: 10.05.2023

Silaform® hardener

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

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

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

	Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3)	10-25%
	STOT RE 2, H373; Skin Irrit. 2, H315	
CAS: 3648-18-8 EINECS: 222-883-3 Index number: 050-031-00-9	dioctyltin dilaurate	≥2.5-<10%
	Repr. 1B, H360D; STOT RE 1, H372	
	Diocetylzinnacetylacetonat (CAS 54068-28-9)	≥2.5-<10%
	STOT SE 2, H371; Skin Sens. 1, H317	
	Kieselsäure Nanoform: Spheroidal, set including amorphous nanoforms, amorphous forms, non-surfacetreated nanoforms	2.5-10%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0	2-butoxyethanol	0.1-1%
	Acute Tox. 3, H311; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 3 of 10
Date of issue: 10.05.2023

Silaform® hardener

	Aroma mixture	≥0.25-<1%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
SVHC		
3648-18-8	dioctyltin dilaurate	

Additional information:

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

If symptoms persist consult doctor.

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 agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters Protective equipment:

Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 4 of 10
Date of issue: 10.05.2023

Silaform® hardener

Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

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:

Keep container tightly sealed.

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

111-76-2 2-butoxyethanol

IOELV

Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls:

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection:

In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 5 of 10
Date of issue: 10.05.2023

Silaform® hardener

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:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

*

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.
Boiling point or initial boiling point and boiling range:	Undetermined.
Flammability:	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>70 °C
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH:	Not determined.
Viscosity	
Kinematic viscosity:	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	0.1 hPa
Density and/or relative density	
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
Particle characteristics:	Kieselsäure: Spheroidal, set including amorphous nanoforms, amorphous forms, non-surfacetreated nanoforms

9.2 Other information

Appearance:

Form: Pasty

Important information on protection of health and environment, and on safety

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 6 of 10
Date of issue: 10.05.2023

Silaform® hardener

Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	<0.7 %
VOC (EC):	<0.75 %
Solids content:	91.6 %
Change in condition	
Evaporation rate:	Not determined.
Explosives:	Void
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids:	Void
Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self-heating substances and mixtures:	Void
Substances and mixtures, which emit flammable gases in contact with water:	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	Void

SECTION 10: Stability and reactivity

*

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability 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

*

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity:	Based on available data, the classification criteria are not met.
--	---

LD/LC50 values relevant for classification:		
Vaseline		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 7 of 10
Date of issue: 10.05.2023

Silaform® hardener

Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	May damage the unborn child.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.
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.

None of the ingredients is listed.

SECTION 12: Ecological information

*

12.1 Toxicity

Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

12.5 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.

12.6 Endocrine disrupting properties:

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.

Other adverse effects:

Remark:

Harmful to fish

Additional ecological information:

General notes:

Harmful to aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment):
hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

EG-MATERIAL SAFETY DATA SHEET



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

Version number 3

page 8 of 10
Date of issue: 10.05.2023

Silaform® hardener

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Class: Void

14.4 Packing group

ADR, IMDG, IATA: Void

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.

REGULATION (EC) No 1907/2006 ANNEX XVII:

Conditions of restriction: 3

Regulation (EU) No 649/2012

3648-18-8	dioctyltin dilaurate	Annex I Part 1
-----------	----------------------	----------------

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.

EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31

Revision: 21.02.2023

Version number 3

page 9 of 10

Date of issue: 10.05.2023

Silaform® hardener

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.

**National regulations:
Other regulations, limitations and prohibitive regulations**

Substances of very high concern (SVHC) according to REACH, Article 57

3648-18-8	dioctyltin dilaurate
-----------	----------------------

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.

Relevant phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H360D May damage the unborn child.
H371 May cause damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Date of previous version: 03.11.2021

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity – Category 4

EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31

Revision: 21.02.2023

Version number 3

page 10 of 10

Date of issue: 10.05.2023

Silaform® hardener

Acute Tox. 3:	Acute toxicity – Category 3
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Skin Sens. 1:	Sensitisation - Skin, Hazard Category 1
Repr. 1B:	Reproductive toxicity – Category 1B
STOT SE 2:	Specific target organ toxicity - Single exposure, Hazard Category 2
STOT RE 1:	Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3:	Hazardous to the aquatic environment - Chronic Hazard, Category 3

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.**