

According to 1907/2006/EC

Date of issue: 17.02.2011

**Silaform hardener**

**1. Identification of the substance / Preparation and Company:**

Identification of the substance or preparation:

Commercial product name: Silaform hardener

Company / Manufacturer: SILADENT Dr. Böhme & Schöps GmbH  
 Im Klei 26  
 D - 38644 Goslar  
 0 53 21 / 37 79 – 0  
 0 53 21 / 38 96 32  
 info@sbs-dental.de / www.sbs-dental.de

**2. Composition / Information on Ingredients:**

Tetraalkylsilicate	20 - < 50 %
Xi, R38 CAS: -, EINECS/ELINCS: -, EU-INDEX: -, ECBnr:- Diorganotin-dicarboxylate	1 - < 10 %
Xn, R48/22-53 CAS: -, EINECS/ELINCS: -, EU-INDEX: -, ECBnr:- Tetraorganotin compound	1 - < 10 %
Xn, R48/22-62-63-43-52/53 CAS: -, EINECS/ELINCS: -, EU-INDEX: -, ECBnr:-	

2.1 Description: Mixture: hardener for the base-component of impression materials for the dental technician, based on condensation curing 2-part silicones.

2.2 Hazardous ingredients: For the wording of the listed risk phrases refer to section 16.

**3. Hazards Identification:**

Physico-chemical hazards: See chapter 10.

Human health dangers: See chapter 11.

Environmental hazards: See chapter 12.

3.1 Other hazards: None.

Hazard symbols:  Xn, Harmful  
 Contains: organo tin compounds.

3.2 R-Phrases:

R38 Irritating to skin.  
 R43 May cause sensitization by skin contact.  
 R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
 R62 R62 Possible risk of impaired fertility  
 R63 R63 Possible risk of harm to the unborn child.

**4. First aid measures:**

4.1 General information: Change soaked clothing.  
 4.2 After inhalation: Ensure supply of fresh air.  
 In the event of symptoms seek for medical treatment.  
 4.3 After skin contact: In case of contact with skin wash off immediately with soap and water.  
 4.4 After eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
 4.5 After swallowing: Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice.  
 4.6 Advice to doctor: Fire residues and contaminated fire fighting water must be disposed of in accordance within the local regulations.

**5. Fire Fighting measures:**

5.1 Suitable extinguishing media: Foam. Dry powder. Water spray jet. Carbon dioxide.  
 5.2 Extinguishing media which must not be used for safety reasons: Full water jet.

According to 1907/2006/EC

Date of issue: 17.02.2011

**Silaform hardener**

- 5.3 Special exposure hazards arising from the substance of preparation itself, combustion products, resulting gases: Unknown risk of formation of toxic pyrolysis products.
- 5.4 Special protective equipment for fire fighting: Use self-contained breathing apparatus.
- 5.5 Additional information: Fire residues and contaminated fire fighting water must be disposed of in accordance within the local regulations.

**6. Accidental release measures:**

- 6.1 Personal precautions: High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation.
- 6.2 Environmental precautions: Do not discharge into the drains / surface waters / groundwater.
- 6.3 Measures for cleaning / collecting: Take up mechanically. Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

**7. Handling and Storage:**

- 7.1 Handling:
  - Information for safe handling: Use only in well-ventilated areas.
  - Information about fire- and explosion protection: Keep away from all sources of ignition - Refrain from smoking.
- 7.2 Storage:
  - Requirements to be met by storerooms and receptacles: Keep only in original container. Prevent penetration into the ground.
  - Advice on storage compatibility: Do not store together with oxidizing agents.
  - Further information about storage conditions: Keep container tightly closed. Keep container in a well-ventilated place. Keep in a cool place.

**8. Exposure controls / Personal protection:**

- 8.1 Additional advice on system design: Ensure adequate ventilation on workstation.
- Ingredients with occupational exposure limits to be monitored: Not applicable.
- 8.2 Respiratory protection: Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A. Butyl rubber, > 120 min (EN 374)
- Hand protection: Safety glasses.
- Eye protection: Light protective clothing.
- Skin protection: Avoid contact with eyes and skin.
- General protective measures: Do not inhale gases / vapours.
- Hygiene measures: Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
- 8.3 Delimitation and monitoring of the environment exposition: Not determined.

**9. Physical and chemical properties:**

- 9.1 General information:
  - Form: pasty
  - Colour: red
  - Odour: characteristic
- 9.2 Change in condition:
  - Melting point / Melting range: Not determined.
  - Boiling point / Boiling range: Not determined.
  - Flash point: Not applicable.
  - Ignition temperature: Not applicable.
  - Explosion limits:

## EU – Safety Data Sheet



According to 1907/2006/EC

Date of issue: 17.02.2011

### Silaform hardener

Lower:	Not applicable.
Upper:	Not applicable.
Vapour pressure (kPa):	Not determined.
Evaporation speed:	Not determined.
Density at 23°C:	Approx. 0,98
Solubility in / miscibility with water:	Immiscible.
pH-value:	Not determined.
Viscosity (mPas):	Not applicable.
Oxidizing properties:	No.
Decomposition temperature:	Not applicable.

#### 10. Stability and Reactivity:

10.1 Hazardous reactions:	Reactions with oxidizing agents.
10.2 Hazardous decomposition products:	No hazardous decomposition products known.

#### 11. Toxicological Information:

11.1 Acute toxicity oral / dermal / inhalational:	Not determined.
11.2 Irritant effect on eye:	Not determined.
Irritant effect on skin :	Not determined.
Sensitization:	Not determined.
Sub acute / Chronic toxicity:	Not determined.
11.3 CMR-activity	Not determined.
11.4 Experiences made in practice:	None.
11.5 General remarks:	Ecological data are not available. Do not discharge product unmonitored into the environment or into the drainage.

#### 12. Ecological Information:

12.1 Ecotoxicity:	Classification based on ingredients: very toxic to aquatic organisms. Do not introduce large amounts into purification plants.
Effects in sewage treatment plants (bacteria toxicity: respiration- /reproduction inhibition):	
12.2 Mobility:	-
12.3 Persistence and degradability: Bio degradation / further information:	Main component: Product is hydrolytically unstable.
12.4 Bio-accumulation:	-
12.5 Other harmful effects:	None known.
12.6 General information:	Prevent material from entering surface waters and soil.

#### 13. Disposal Considerations:

13.1 Product:	Dispose of as hazardous waste. For recycling, consult manufacturer.
Waste no. (recommended):	070608*
13.2 Contaminated packaging:	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for Product.
Waste no. (recommended):	150110*

According to 1907/2006/EC

Date of issue: 17.02.2011

**Silaform hardener**

**14. Transport Information:**

14.1	Classification according to ADR Classification Code: Label: ADR LQ: ADR 1.1.3.6 (8.6):	No dangerous goods. - - - Transport category (tunnel restriction code): -
14.2	Classification according to IMDG: -EMS: -Label: IMDG LQ:	not classified as « Dangerous Goods » - - -
14.3	Classification according to IATA: -Label:	not classified as « Dangerous Goods » -

**15. Regulatory Information:**

15.1	Exposure scenario: Chemical safety report: Labelling:	Not determined. Not determined. The product is classified and labelled in accordance within EC directives. This preparation is excluded as medical device from the regulation 1999/45/EEC and TITEL IV of 1907/2006/EEC (REACH).
15.2	Special labelling: Authorisation, TITEL VII: Restrictions, TITEL VIII: EEC-REGULATIONS:  TRANSPORT- REGULATIONS:  NATIONAL REGULATIONS:	Not applicable. Not applicable. Not applicable. 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EC (2008/47/EC); 453/2010/EC DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011). EH40/2005 Workplace exposure limits with amendments October 2007

**16. Further 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.

R-phrases (Chapter 03):

R48/22	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R38	Irritating to skin.

Observe employment restrictions for people:	Yes.
VOC (1999/13/CE):	Not determined.
Customs tariff:	Not determined.

## EU – Safety Data Sheet

According to 1907/2006/EC  
Date of issue: 17.02.2011

**Silaform hardener**



Page 5 of 5

Printing date: 03.05.2011

### 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).
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association".
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization".