



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

- 1.1 Product identifier**
Commercial product name: SilaPrint cast
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Application of the substance / the mixture: No further relevant information available.
 Material based on methacrylate resin for DLP systems with 385nm / 405nm LED for the manufacturing of profiles that burn out without any residue for the dental casting 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: +49 (0) 53 21 / 37 79 - 0
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:
-  GHS07
- | | | |
|---------------|------|--------------------------------------|
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction. |
| STOT SE 3 | H335 | May cause respiratory irritation. |
- 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
- Signal word:** Warning
- Hazard-determining components of labelling:** Diurethandimethacrylate
 triethylene glycol dimethacrylate
 phenyl bis(2,4,6-trimethylbenzoyl)-phosphineoxide
- Hazard statements:**
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
- Precautionary statements:**
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280: Wear protective gloves / eye protection.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards:




Results of PBT and vPvB assessment:

PBT: Not applicable.
 vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 72869-86-4 EINECS: 276-957-5	Diurethandimethacrylate  Skin Sens. 1, H317	50-100 %
CAS: 109-16-0	triethylene glycol dimethacrylate  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 162881-26-7 ELINCS: 423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphineoxide  Skin Sens. 1, H317; Aquatic Chronic 4, H413	≤ 2.5%

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.

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.
 If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water.
 Then consult a doctor.

After swallowing: Do not induce vomiting.
 Call a doctor immediately.

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.

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For safety reasons unsuitable extinguishing agents:

Water with full jet

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:

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

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

Avoid contact with skin and eyes.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:

No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities
Storage:**

Requirements to be met by storerooms and receptacles:

Protect from heat and direct sunlight.

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

Additional information about design of technical facilities:

No further data; see item 7.

**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.

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8.2 Exposure controls

**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.
Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

Protective gloves should be changed regularly, especially after intensive contact with the product.
For every workplace a suitable type of protective gloves must be selected. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

Nitrile rubber, NBR (0,4 mm)
As there are many different conditions in every day work these indications can only serve as an aid to orientation for the selection of suitable gloves for the handling of chemical products. By no means can they replace qualifying examinations by the end-user. These recommendations only apply to the product mentioned in the safety data sheet. When mixing with other substances or under conditions deviant from norm EN 374 a manufacturer of CE-approved gloves should be referred to. 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. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:



Tightly sealed goggles

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Fluid

Colour:

Reddish transparent

Odour:

Characteristic

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Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	201 °C
Flash point:	151 °C
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	445 °C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.1 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 23 °C:	200 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No dangerous reactions if used according to specifications.
10.2 Chemical stability:	Stable if used according to specifications.
Thermal decomposition / conditions to be avoided:	Protect from heat and direct sunlight. 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.
Primary irritant effect:	
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
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:	May cause respiratory irritation.

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.

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.
Additional ecological information:
General notes: Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment:**
PBT: Not applicable.
vPvB: Not applicable.
- 12.6 Other adverse effects:** No further relevant information available.

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. Disposal must be made according to official regulations.

European waste catalogue	
HP 4	Irritant - skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 13	Sensitising

- 13.2 Uncleaned packaging:**
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number**
ADR, ADN, IMDG, LATA Void
- 14.2 UN proper shipping name**
ADR, AND, IMDG, LATA Void
- 14.3 Transport hazard class(es)**
ADR, ADN, IMDG, LATA
Class Void
- 14.4 Packing group**
ADR, IMDG, LATA Void
- 14.5 Environmental hazards:**
Marine pollutant: No
- 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**

None of the ingredients is listed.

I:

REGULATION (EC) No 1907/2006 ANNEX

Conditions of restriction: 3

XVII:

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.

16.1 Relevant phrases:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

16.2 Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

* Data compared to the previous version altered.