Dental SG
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 1-5-2018 Version: 1.0

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

1.1. Product identifier
Product form : Mixture
Product name : Dental SG
Product group : Trade product

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

1.2.1. Relevant identified uses
Main use category : Professional use
Use of the substance/mixture : Manufacture of 3D-printed applications for the dental industry
Use of the substance/mixture : Dentistry

<table>
<thead>
<tr>
<th>Title</th>
<th>Use descriptors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental SG</td>
<td>SU20</td>
</tr>
</tbody>
</table>

Full text of use descriptors: see section 16

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
Vertex Dental
Centurionbaan 190
3769 AV Soesterberg - The Netherlands
T +31 886160400
info@vertex-dental.com - www.vertex-dental.com

Distributor
Formlabs, Inc.
35 Medford Street, Suite #201
T North America call +1 800 255 3924
Worldwide Intl. call +01 813 248 0585
Reference Contract Number MIS47075633

1.4. Emergency telephone number
Emergency number : (Only for the purpose of informing medical personnel in cases of accidental intoxications. The emergency phone number is 24 hours/day available.)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre) City Hospital</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP) : Warning
Hazardous ingredients : 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Hazard statements (CLP) : H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w/w (% w/w)</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxylated bisphenol A dimethacrylate</td>
<td>(CAS-No.) 41637-38-1 (EC-No.) 609-946-4</td>
<td>&gt;= 75</td>
<td>Aquatic Chronic 4, H413</td>
</tr>
<tr>
<td>7,7(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate</td>
<td>(CAS-No.) 72869-86-4 (EC-No.) 276-957-5 (REACH-no) 01-2120751202-68</td>
<td>30 - 50</td>
<td>Skin Sens. 1B, H317, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</td>
<td>(CAS-No.) 162881-26-7 (EC-No.) 423-340-5 (EC Index-No.) 015-189-00-5 (REACH-no) 01-2119489401-38</td>
<td>&lt; 10</td>
<td>Skin Sens. 1, H317, Aquatic Chronic 4, H413</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No additional information available

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.
6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

6.4. Reference to other sections
Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in original container. Keep container closed when not in use. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.

Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Ethoxylated bisphenol A dimethacrylate (41637-38-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL/DMEL (Workers)</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal: 2 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation: 3.52 mg/m³</td>
</tr>
<tr>
<td>DNEL/DMEL (General population)</td>
</tr>
<tr>
<td>Long-term - systemic effects, oral: 0.5 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation: 0.87 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal: 1 mg/kg bodyweight/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL/DMEL (Workers)</td>
</tr>
<tr>
<td>Acute - systemic effects, dermal: 3.33 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Acute - systemic effects, inhalation: 7.84 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal: 3.33 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation: 7.84 mg/m³</td>
</tr>
<tr>
<td>DNEL/DMEL (General population)</td>
</tr>
<tr>
<td>Acute - systemic effects, dermal: 1.67 mg/kg bodyweight</td>
</tr>
<tr>
<td>Acute - systemic effects, inhalation: 3.92 mg/m³</td>
</tr>
<tr>
<td>Acute - systemic effects, oral: 1.67 mg/kg bodyweight</td>
</tr>
<tr>
<td>Long-term - systemic effects, oral: 1.5 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation: 1.93 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal: 1.5 mg/kg bodyweight/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC (Water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC aqua (freshwater): 0.0008 - 0.001 mg/l</td>
</tr>
<tr>
<td>PNEC aqua (marine water): 0.0008 - 0.001</td>
</tr>
<tr>
<td>PNEC aqua (intermittent, marine water): 0.0008 - 0.001 mg/l</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC (Sediment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC sediment (freshwater): 0.712 mg/kg bw</td>
</tr>
<tr>
<td>PNEC sediment (marine water): 0.712 mg/kg bw</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC (Soil)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC soil: 20 mg/kg bw</td>
</tr>
</tbody>
</table>
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

PNEC sewage treatment plant
1 mg/l

7,7,9(or 7,9,9)-trimethyl-4,13-dioxa-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal
1.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation
3.3 mg/m³

DNEL/DMEL (General population)
Long-term - systemic effects, oral
0.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation
0.6 mg/m³
Long-term - systemic effects, dermal
0.7 mg/kg bodyweight/day

PNEC (Water)
PNEC aqua (freshwater)
0.01 mg/l
PNEC aqua (marine water)
0.001 mg/l
PNEC aqua (intermittent, freshwater)
0.1 mg/l
PNEC aqua (intermittent, marine water)
0.1 mg/l

PNEC (Sediment)
PNEC sediment (freshwater)
4.56 mg/kg bw
PNEC sediment (marine water)
0.46 mg/kg bw

PNEC (Soil)
PNEC soil
0.91 mg/kg bw

PNEC (STP)
PNEC sewage treatment plant
3.61 mg/l

8.2. Exposure controls

Hand protection:
Wear suitable gloves resistant to chemical penetration. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. penetration time (maximum wearing period): > 480 m. Suitable material: Nitrile rubber, Chloroprene rubber, Polyvinylchloride (PVC). Layer thickness : 0,4 mm - 0,5 mm - 0,7 mm

Eye protection:
Wear eye glasses with side protection according to EN 166.

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
No personal breathing protective equipment is normally required. In case of inadequate ventilation wear respiratory protection. particle filter device (DIN EN 143)

Personal protective equipment symbol(s):

Environmental exposure controls:
Use appropriate container to avoid environmental contamination.

Other information:
Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
Liquid

Colour:
transparent, orange.

Odour:
Ester.

Odour threshold:
No data available

pH:
No data available

Relative evaporation rate (butylacetate=1):
No data available

Melting point:
No data available
Freezing point: No data available
Boiling point: > 200 °C
Flash point: No data available
Auto-ignition temperature: 375 °C
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 1,1 - 1,2 Relative density, liquid (water=1)
Solubility: Soluble in organic solvents.
Water: insoluble in water
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: 0,9 - 1,1 Pa.s
 Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
VOC content: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

<table>
<thead>
<tr>
<th>Ethoxylated bisphenol A dimethacrylate (41637-38-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat: 2000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat: 2000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat: 2000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat: 2000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyI bismethacrylate (72869-86-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat: 5000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat: 2000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
**Dental SG**  
Safety Data Sheet  
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**STOT-single exposure**: Not classified  
**STOT-repeated exposure**: Not classified

<table>
<thead>
<tr>
<th><strong>Ethoxylated bisphenol A dimethacrylate (41637-38-1)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAEL (oral, rat, 90 days)</td>
<td>300 mg/kg bodyweight/day</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAEL (oral, rat, 90 days)</td>
<td>1000 mg/kg bodyweight/day</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyi bismethacrylate (72869-86-4)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAEL (oral, rat, 90 days)</td>
<td>100 - 300 mg/kg bodyweight/day</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration hazard**: Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general**: Avoid release to the environment.  
**Acute aquatic toxicity**: Not classified  
**Chronic aquatic toxicity**: Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th><strong>Ethoxylated bisphenol A dimethacrylate (41637-38-1)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC (chronic)</td>
<td>14,3 mg/l 28 d</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fishes</td>
<td>0,09 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>1,175 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 72h algae (1)</td>
<td>0,26 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOEC</td>
<td>0,008 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOEC (chronic)</td>
<td>0,008 mg/l 21 d</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOEC chronic algae</td>
<td>0,26 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyi bismethacrylate (72869-86-4)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes</td>
<td>10,1 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>1,2 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 72h algae (1)</td>
<td>0,68 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th><strong>Ethoxylated bisphenol A dimethacrylate (41637-38-1)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>3,43 - 5,62 @ pH 6.44</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>4,65 - 5,8 @ 20-22 °C and pH 7.5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyi bismethacrylate (72869-86-4)</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>3 - 3,39 @ 20 °C and pH 7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

**Additional information**: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Regional legislation (waste)**: Disposal must be done according to official regulations.  
**Product/Packaging disposal recommendations**: Can be dumped in according to local regulations.  
**Ecology - waste materials**: Avoid release to the environment.
## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMGD</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1.</td>
<td>UN number</td>
<td>3082</td>
<td>3082</td>
<td>3082</td>
</tr>
<tr>
<td>14.2.</td>
<td>UN proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</td>
</tr>
</tbody>
</table>

### Transport document description (ADR)

- UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyldimethacrylate), 9, III, (-)
- UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT
- UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
- UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
- UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

### Transport hazard class(es)

<table>
<thead>
<tr>
<th>Class</th>
<th>ADR</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>

### Packing group

<table>
<thead>
<tr>
<th>Group</th>
<th>ADR</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
</tbody>
</table>

### Environmental hazards

- Dangerous for the environment: Yes
- Dangerous for the environment: Yes
- Dangerous for the environment: Yes
- Dangerous for the environment: Yes
- Dangerous for the environment: Yes

No supplementary information available

### Special precautions for user

#### Overland transport

- Classification code (ADR): M6
- Special provisions (ADR): 274, 335, 375, 601
- Limited quantities (ADR): 5l
- Excepted quantities (ADR): E1
- Packing instructions (ADR): P001, IBC03, LP01, R001
- Special packing provisions (ADR): PP1
- Mixed packing provisions (ADR): MP19
- Portable tank and bulk container instructions (ADR): T4
- Portable tank and bulk container special provisions (ADR): TP1, TP29
- Tank code (ADR): LGBV
- Vehicle for tank carriage: AT
- Transport category (ADR): 3
- Special provisions for carriage - Packages (ADR): V12
- Special provisions for carriage - Loading, unloading and handling (ADR): CV13
- Hazard identification number (Kemler No.): 90
- Orange plates: 90 3082
- Tunnel restriction code (ADR): -
- EAC code: +3Z
- **Transport by sea**
  Special provisions (IMDG) : 274, 335, 969
  Packing instructions (IMDG) : P001, LP01
  Special packing provisions (IMDG) : PP1
  IBC packing instructions (IMDG) : IBC03
  Tank instructions (IMDG) : T4
  Tank special provisions (IMDG) : TP2, TP29
  EmS-No. (Fire) : F-A
  EmS-No. (Spillage) : S-F
  Stowage category (IMDG) : A

- **Air transport**
  PCA Excepted quantities (IATA) : E1
  PCA Limited quantities (IATA) : Y964
  PCA limited quantity max net quantity (IATA) : 30kgG
  PCA packing instructions (IATA) : 964
  PCA max net quantity (IATA) : 450L
  CAO packing instructions (IATA) : 964
  CAO max net quantity (IATA) : 450L
  Special provisions (IATA) : A97, A158, A197
  ERG code (IATA) : 9L

- **Inland waterway transport**
  Classification code (ADN) : M6
  Special provisions (ADN) : 274, 335, 375, 601
  Limited quantities (ADN) : 5 L
  Excepted quantities (ADN) : E1
  Carriage permitted (ADN) : T
  Equipment required (ADN) : PP
  Number of blue cones/lights (ADN) : 0

- **Rail transport**
  Classification code (RID) : M6
  Special provisions (RID) : 274, 335, 375, 601
  Excepted quantities (RID) : E1
  Packing instructions (RID) : P001, IBC03, LP01, R001
  Special packing provisions (RID) : PP1
  Mixed packing provisions (RID) : MP19
  Portable tank and bulk container instructions (RID) : T4
  Portable tank and bulk container special provisions (RID) : TP1, TP29
  Tank codes for RID tanks (RID) : LGBV
  Transport category (RID) : 3
  Special provisions for carriage – Packages (RID) : W12
  Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
  Colis express (express parcels) (RID) : CE8
  Hazard identification number (RID) : 90

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**
Not applicable

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**
The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:
Dental SG
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

<table>
<thead>
<tr>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental SG - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate</td>
</tr>
</tbody>
</table>

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

<table>
<thead>
<tr>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental SG - Ethoxylated bisphenol A dimethacrylate - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate</td>
</tr>
</tbody>
</table>

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information


Other information : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>H- and EUH-statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 2</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 4</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 4</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1B</td>
</tr>
<tr>
<td>Skin sensitisation, category 1B</td>
</tr>
<tr>
<td>H317</td>
</tr>
<tr>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H411</td>
</tr>
<tr>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H413</td>
</tr>
<tr>
<td>May cause long lasting harmful effects to aquatic life.</td>
</tr>
</tbody>
</table>

Full text of use descriptors

<table>
<thead>
<tr>
<th>SU20</th>
<th>Health services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 2</td>
<td>H317 Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 4</td>
<td>H411 Calculation method</td>
</tr>
</tbody>
</table>

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product