1. Identification of the substance/mixture and of the company/undertaking
   
   **Product Identifier**
   
   **Trade name:** VITA ADIVA TE-CEM
   
   **Use of the preparation:** Dental product
   
   **Details of the supplier of the safety data sheet:**
   
   **Manufacturer/supplier:**
   Harvard Dental International GmbH,
   Margaretenstraße 2-4,
   15366 Hoppegarten, Germany
   info@harvard-dental-international.de
   
   **Emergency telephone number:**
   + 49 (0) 30 99 28 978-0 (Quality Management)

2. Hazards identification

   **Classification of the substance or mixture:**
   
   **Classification according to Regulation (EC) No 1272/2008:**
   Skin Irritation, Category 2; H315 Causes skin irritation
   Eye Irritation, Category 2; H319 Causes serious eye irritation
   STOT SE, Category 3, H335 May cause respiratory irritation
   Acute aquatic toxicity, Category 1, H400 Very toxic to aquatic life
   Chronic aquatic toxicity, Category 1, H410 Very toxic to aquatic life with long lasting effects

   **Information concerning particular hazards for human and environment:**
   The product has to be labeled due to the calculation procedure of the „General classification guideline for preparations of the EU“ in the latest valid version.

   **Label elements:**
   
   **Labeling according to Regulation (EC) 1272/2008:**
   
   **Hazard pictograms**
   
   ![Hazard pictogram]
   
   **Signal word**
   Warning

   **Hazard statements**
   H315 Causes skin irritation
   H319 Causes serious eye irritation
   H335 May cause respiratory irritation
   H400 Very toxic to aquatic life

   **Precautionary statements**
   P262 Do not get in eyes, on skin or on clothing.

   **Labeling according to EU guidelines:**
   Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body; are exempted from the provisions of Regulation (EC) No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

   **Other hazards**
   
   **Results of PBT and vPvB assessment**
   
   **PBT:** not applicable
   **vPvB:** not applicable
3. Composition/Information on Ingredients

**Chemical characterization:** Mixture

**Description of the mixture:** Mixture of organic acids, zinc oxide and methacrylates

**Hazardous components:**
- Methacrylates [Index-No. 607-134-00-4] GHS07, H315, H319, H335
- Zinc oxide [CAS-No. 1314-13-2] GHS09, H410, H411

4. First-aid measures

**General information:** no special measures required

**after skin contact:** wash with plenty of water and soap

**after eye contact:** Rinse opened eye for several minutes under running water and consult a doctor

**after swallowing:** Seek medical advice immediately

5. Fire fighting measures

**Extinguishing media:**
- CO₂, powder, water spray.

**Use extinguishing method and media suitable to surrounding fire**

**Special hazards arising from the substance or mixture** No further relevant information available

**Protective equipment** Wear self-contained respiratory protective equipment

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Environmental precautions:**
- Do not allow to enter drains/surface water/ground-water.

**Methods for cleaning up:**
- Take up mechanically. Clean up affected area. Forward for disposal.

**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

7. Handling and storage

**Handling:**
- This product should only be supplied or handled to dentists or dental technicians or upon their instructions.

**Precautions for safe handling:** Observe normal care for working with chemicals

**Information about fire and explosion protection:** No special measures required

**Storage:**
- **Requirements at storerooms and containers:** Store only in the original containers

**Further information on storage conditions:**
- Store at dry place, storage temperature < 25°C. Store away from food stuffs.

**Specific end uses:** No further relevant information available
8. Exposure controls/personal protection

Components with limits of values to be supervised at the workplace:
The product contains no relevant quantities of components with limit values to be supervised at the workplace.
Additional information: The lists valid during the making were used as basis

Personal protective equipment:

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs and beverages.

Hand protection
Protective gloves.
Due to missing tests no recommendation to the glove material can be given for the product.
Eye protection: safety glasses
Respiratory protection: Required, when aerosols are generated

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Form: paste
Color: Tooth colored
Odor: odorless

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/melting range:</td>
<td>n.a.</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range:</td>
<td>n.a.</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>n.a.</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>Product is not selfigniting</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>1.56 (20 °C)</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not applicable (non volatile)</td>
<td></td>
</tr>
<tr>
<td>Solubility in/miscibility with:</td>
<td>slightly in toluene, organic solvents</td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>insoluble</td>
<td></td>
</tr>
<tr>
<td>Content of solvents:</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

10. Stability and reactivity

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

Possibility of hazardous reactions: No dangerous reaction known

Conditions to avoid: avoid heat, direct sunlight

Incompatible materials: Peroxides, metal powders, strong oxidizers, free radical initiators

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Allergic reactions to methacrylates by chronic exposure to the product are possible

Acute toxicity:
Primary irritation:
skin: slightly irritating
eye: irritating effect

Sensitization: no sensitizing effect known
Additional toxicological information:
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information
Toxicity:
Aquatic toxicity: May cause long term adverse effect in the aquatic environment
Persistence and degradability: No further relevant information available
Behavior in environmental systems:
Bioaccumulative potential No further relevant information available
Mobility in soil No further relevant information available
General information: Do not allow product into surface water or sanitary sewer system

13. Disposal considerations
Product:
Recommendation:
Use proper landfill disposal or incineration in accordance with local, state and federal regulations
Uncleaned packaging: Handle contaminated packaging in the same way as the substance itself.
Recommendation: Disposal must be made according to official regulations

14. Transport information
Land transport ADR/RID and GGVS/GGVE (Germany)
no subject to transport regulations.
Sea transport IMDG
no subject to transport regulations.
Air transport ICAO-TI and IATA-DGR
no subject to transport regulations.

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

15. Regulatory information
Classification according to EC-guidelines:
The product is a medical device according to EC-directive 93/42 EEC.
Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16. Other information:
Changes compared with the previous version:
Adaptation according to 1907/2006/EG, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.