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

- **1.1 Product identifier**
  - **Trade name:** Technovit 2000 LC Fixierpaste
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Kulzer GmbH
    - Leipziger Straße 2, 63450 Hanau (Germany)
    - Tel.: +49 (0)6181 9689-2570 (Wehrheim)
  - **Informing department:** email: technik.wehrheim@kulzer-dental.com
- **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    - Skin Sens. 1 H317 May cause an allergic skin reaction.
- **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:**
        - triethylen glycol dimethacrylate
      - **Hazard statements**
        - H317 May cause an allergic skin reaction.
      - **Precautionary statements**
        - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
        - P280 Wear protective gloves/protective clothing/eye protection/face protection.
        - P321 Specific treatment (see on this label).
        - P363 Wash contaminated clothing before reuse.
        - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
        - P302+P352 IF ON SKIN: Wash with plenty of water.
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Product based on methacrylates

(Contd. on page 2)
**Trade name:** Technovit 2000 LC Fixierpaste

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information** No special measures required.
  - **After skin contact** The product is not skin irritating.
  - **After eye contact** Rinse opened eye for several minutes under running water.
  - **After swallowing** Rinse out mouth and then drink plenty of water.
    - In case of persistent symptoms 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.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents**
    - CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
    - Use fire fighting measures that suit the environment.

- **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.
  - **Additional information** -

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

- **6.2 Environmental precautions:** No special measures required.

- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

- **6.4 Reference to other sections**
  - See Section 13 for information on disposal.
  - See Section 8 for information on personal protection equipment.

- **Reference to other sections**

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**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special measures required.
  - **Information about protection against explosions and fires:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:** No special requirements.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** None.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

- Components with critical 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.

<table>
<thead>
<tr>
<th>109-16-0 triethylen glycol dimethacrylate</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNELs</td>
</tr>
<tr>
<td>Dermal worker industr., l.te., syst.</td>
</tr>
<tr>
<td>13.9 mg/Kg/d (nd)</td>
</tr>
<tr>
<td>Inhalative worker industr., l.te., syst.</td>
</tr>
<tr>
<td>48.5 mg/m3 (nd)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>109-16-0 triethylen glycol dimethacrylate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNECs</td>
</tr>
<tr>
<td>marine water</td>
</tr>
<tr>
<td>0.0164 mg/l (nd)</td>
</tr>
<tr>
<td>sedim., dw, fre.wat.</td>
</tr>
<tr>
<td>1.85 mg/Kg (nd)</td>
</tr>
<tr>
<td>sedim., dw, mar.wat.</td>
</tr>
<tr>
<td>0.185 mg/Kg (nd)</td>
</tr>
<tr>
<td>soil, dw</td>
</tr>
<tr>
<td>0.274 mg/Kg (nd)</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

- Personal protective equipment
  - General protective and hygienic measures
    The usual precautionary measures should be adhered to in handling the chemicals.
  - Breathing equipment: Not required.
  - Protection of hands: 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.
  - Penetration time of glove material
    The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: not absolutely neccessary
  - Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Pasty
      - Colour: According to product specification
      - Smell: Odourless
      - Odour threshold: Not determined.
    - pH-value: Not determined.
    - Change in condition
      - Melting point/Melting range: Not determined
      - Boiling point/Boiling range: Not determined
Trade name: Technovit 2000 LC Fixierpaste

- Flash point: 151 °C
- Inflammability (solid, gaseous): Not applicable.
- Ignition temperature:
  - Decomposition temperature: Not determined.
- Self-inflammability: Product is not self-igniting.
- Danger of explosion: Product is not explosive.

- Critical values for explosion:
  - Lower: Not determined.
  - Upper: Not determined.
- Steam pressure at 20 °C: 1 hPa
- Density at 20 °C
  - 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 20 °C: 9999 mPas
  - Kinematic: Not determined.
- Solvent content:
  - VOC EU: g/l
  - Solids content: 78.8 %
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity
- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability
  - Conditions to be avoided: No decomposition if used and stored 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: None
  - Additional information: If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

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 that are relevant for classification:
  1565-94-2 Bisphenol A-bis(hydroxypropylmethacrylate)
  - Oral LD50 >5110 mg/kg (rat)
Trade name: Technovit 2000 LC Fixierpaste

109-16-0 triethylen glycol dimethacrylate

<table>
<thead>
<tr>
<th></th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (mouse)</td>
</tr>
</tbody>
</table>

Pyrogenic silica, silanized

<table>
<thead>
<tr>
<th></th>
<th>Oral LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - 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
  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 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.

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity:
    - 109-16-0 triethylen glycol dimethacrylate
      EC50/72h > 100 mg/l (algae)

- 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 undiluted product or large quantities of it to reach ground water, water bodies 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 Smaller quantities can be disposed with household garbage.

- European waste catalogue
  11 01 98 | other wastes containing dangerous substances

- Uncleaned packagings:
  - 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 Void
    - Class Void
- 14.4 Packing group
  - ADR, IMDG, IATA 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 Marpol and the IBC Code
  Not applicable.
- Transport/Additional information:
  -
- UN "Model Regulation": Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment:
  A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H317 May cause an allergic skin reaction.
- 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)
  - VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweis (Swiss Ordinance on volatile organic compounds)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.