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

· Product identifier

· Trade name: ClearTemp® LC

· Article number: 71106

· Index number: SDS 256-001.04

· Relevant identified uses of the substance or mixture and uses advised against
  Professional Temporary Veneer Cement

· Application of the substance / the mixture Professional Temporary Veneer Cement

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  Ultradent Products Inc.
  505 W. Ultradent Drive (10200 S)
  South Jordan, UT 84095-3942
  USA
  onlineordersupport@ultradent.com

EC Responsible Person
Ultradent Products GmbH
Am Westhover Berg 30
51149 Cologne Germany
Email: infoDe@ultradent.com
Emergency Phone: +49(0)2203-35-92-0

· Further information obtainable from: Customer Service

· Emergency telephone number:
  CHEMTREC (NORTH AMERICA) :(800) 424-9300
  (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

· 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.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008
  The Regulation EC 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) shall not apply to a medical device in the finished state used in direct physical contact with the human body according to Art. 1.5 (d). Therefore, the product is exempted from the CLP labeling requirements, and no SDS is required by Regulation 1907/2006, Art. 2 (6c), REACH. Therefore, all given data, classification, and information on this SDS are provided solely on a voluntary basis.

· Hazard pictograms GHS07

· Signal word Warning

· Hazard-determining components of labelling:
  Triethylene Glycol Dimethacrylate

(Contd. on page 2)
Trade name: ClearTemp® LC

(Contd. of page 1)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2019
Revision: 19.02.2019

Trade Secret
Methacrylic Acid

· 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
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
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.

· Other hazards

· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:
  - CAS: 109-16-0 Triethylene Glycol Dimethacrylate
    - Skin Sens. 1, H317 <40%
  - CAS: 79-41-4 Methacrylic Acid
    - Acute Tox. 3, H331; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312 <5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
· After inhalation: This product is a thick paste, therefore inhalation is extremely unlikely.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact:
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing:
  - If swallowed in large quantities seek medical attention.
· Information for doctor:
· Most important symptoms and effects, both acute and delayed No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

(Contd. on page 3)
5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:
  Foam, dry chemical, carbon dioxide
  Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- 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:
- Precautions for safe handling:
  Avoid contact with eyes, skin, and clothing. Use suitable protective equipment.
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
- Information about fire - and explosion protection:
  Protect from heat.
  Keep ignition sources away - Do not smoke.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
  Protect from exposure to the light.
  See product labelling.
  Keep container tightly sealed.
- Specific end use(s) Professional Temporary Veneer Cement

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
48. Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>79-41-4 Methacrylic Acid</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL (Great Britain)</td>
<td>Short-term value: 143 mg/m³, 40 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 72 mg/m³, 20 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of 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 can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Paste
Colour: Light yellow
Odour: Acrylic
Odour threshold: Not determined.

(Contd. on page 5)
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
Trade name: ClearTemp® LC

LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>26,173 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>12,346 mg/kg</td>
</tr>
<tr>
<td>Inhalative</td>
<td>2.08 mg/l (rat)</td>
</tr>
</tbody>
</table>

**109-16-0 Triethylene Glycol Dimethacrylate**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;5,000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>16.4 mg/l (Fish) (Toxicity to fish)</td>
</tr>
<tr>
<td>LC50 Fish</td>
<td>&gt;2,000 mg/kg (mouse)</td>
</tr>
</tbody>
</table>

**79-41-4 Methacrylic Acid**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1,250 mg/kg (mouse)</td>
</tr>
<tr>
<td>Dermal</td>
<td>1,060 mg/kg (rat)</td>
</tr>
<tr>
<td></td>
<td>1,200 mg/kg (rabbit)</td>
</tr>
<tr>
<td>LC50 Fish</td>
<td>86 mg/l (Fish)</td>
</tr>
<tr>
<td>Dermal</td>
<td>1,000 mg/kg (Guinea pig)</td>
</tr>
<tr>
<td></td>
<td>500 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>7.1 mg/l (rat)</td>
</tr>
</tbody>
</table>

· 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.

12 Ecological information

· Toxicity
· · Aquatic toxicity:

**109-16-0 Triethylene Glycol Dimethacrylate**

| Biodegradability | 28 days (Aerobic) (Biodegradability testing) |
| Aqua toxicity | 32 mg/l (daphnia) (No Observed Effect Concentration) |
| EC50 | >100 mg/l (Algae) (Toxicity to algae) |

**79-41-4 Methacrylic Acid**

| EC50 | <180 mg/kg (daphnia) (Toxicity to aquatic invertebrates) |
| EC50 | 45 mg/l (Algae) (Toxicity to algae) |

· Persistence and degradability
  No further relevant information available.
### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

<table>
<thead>
<tr>
<th>European waste catalogue</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 8 Corrosive</td>
</tr>
<tr>
<td>HP 13 Sensitising</td>
</tr>
</tbody>
</table>

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

### 14 Transport information

- **UN-Number**
  - ADR, ADN, IMDG, IATA: not regulated

- **UN proper shipping name**
  - ADR, ADN, IMDG, IATA: not regulated

- **Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA: not regulated

- **Packing group**
  - ADR, IMDG, IATA: not regulated

- **Environmental hazards:**
  - Not applicable.

- **Special precautions for user**
  - Not applicable.

- **Stowage Category**
  - E

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

- **UN "Model Regulation"**
  - Not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. of page 6)
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.

- **Relevant phrases**
  - H302 Harmful if swallowed.
  - H312 Harmful in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H331 Toxic if inhaled.

- **Department issuing SDS:** Regulatory Affairs

- **Contact:** Customer Service

- **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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 4: Acute toxicity – Category 4
  - Acute Tox. 3: Acute toxicity – Category 3
  - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  - 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
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3