SAFETY DATA SHEET  
according to Regulation (EC) No. 453/2010  
Dental Use

PermaQuick® Bond Resin

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

1.1. Product identifier

Product code : PK/63400  
Product name : PermaQuick® Bond Resin  
Product description : Dental bonding resin

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

Relevant identified uses : Professional Dental Bonding Resin

1.3. Details of the supplier of the safety data sheet

Manufacturer  
Ultradent Products, Inc.  
505 W. 10200 S.  
South Jordan, UT 84095

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

1.4. Emergency telephone number

CHEMTREC (NORTH AMERICA) :(800) 424 - 9300  
(INTERNATIONAL) :+1(703) 527 - 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 1999/45/EC  
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Danger symbols : Xi  
R phrases : R36/38,R43

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

Health  
Eye Irritation, Category 2  
Skin Irritation, Category 2  
Skin Sensitization, Category 1

2.2. Label elements

Classification according to Directive 1999/45/EC  
Hazard pictogram(s) : Xi

R&S statement(s)  
R36/38: Irritating to eyes and skin.  
R43: May cause sensitization by skin contact.
PermaQuick® Bond Resin

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

Hazard pictogram(s) : Exclamation mark

Signal Word : WARNING

Hazard statement(s) : H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary statement(s)


Response : P305: IF IN EYES:
P351: Rinse cautiously with water for several minutes.
P315: Get immediate medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P361: Take off immediately all contaminated clothing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.

Storage : P273: Avoid release to the environment.


2.3. Other hazards

Immediate concerns : No other adverse human effects.

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>EINECS No.</th>
<th>Wt.%</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis-GMA</td>
<td>1565-94-2</td>
<td>216-367-7</td>
<td>&lt; 20</td>
<td>Xi; R36/37/38; R22</td>
<td>H315; H319; H317</td>
</tr>
<tr>
<td>2-hydroxyethyl Methacrylate</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>&lt; 20</td>
<td>Xi; R43; R36/38</td>
<td>Eye Irr., Cat. 2; Skin Irr., Cat. 2; Skin Sens., Cat. 1; H315; H317</td>
</tr>
<tr>
<td>2-dimethylaminoethyl Methacrylate</td>
<td>2867-47-2</td>
<td>220-688-8</td>
<td>&lt; 5</td>
<td>T, Xi; R22; R36/37/38; R43</td>
<td>Acute Tox. (O), Cat. 4; Acute Tox. (D), Cat. 4; Skin Irr., Cat. 2; Skin Sens., Cat. 1; Eye Irr., Cat. 2; H302; H312; H319; H315; H317</td>
</tr>
</tbody>
</table>

For full text of H-statements and R-phrases: see SECTION 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Following eyes**: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Following skin**: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**Following ingestion**: If swallowed in small quantity the product is harmless, otherwise consult a doctor.

**Following inhalation**: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**4.2. Most important symptoms and effects, both acute and delayed**
**PermaQuick® Bond Resin**

**Eyes**
- Causes eye irritation.

**Skin**
- May cause skin irritation and sensitization.

**Ingestion**
- May be harmful if swallowed in large quantities.

**Inhalation**
- None expected for this product.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes to physician**
- Not Applicable

**SECTION 5: Fire fighting measures**

**5.1. Extinguishing media**

**Extinguishing media**
- Please see Fire Fighting Equipment under Section 5.3.

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products**
- None known.

**Explosion hazards**
- Not Determined

**Fire explosion**
- Not Determined

**Sensitive to static discharge**
- Not Determined

**Sensitivity to impact**
- Not Determined

**5.3. Advice for firefighters**

**Fire fighting procedures**
- General: Evacuate all personnel; use protective equipment for firefighting. Use self-contained breathing apparatus when the product is involved in fire.

**Fire fighting equipment**
- Foam, dry chemical, carbon dioxide (CO₂).

**SECTION 6: Accidental release measures**

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

**General procedures**
- Refer to Section 8 for Personal Protective Equipment.

**6.2. Environmental precautions**

**Water spill**
- Do not allow to enter sewers or drains that may lead to waterways.

**6.3. Methods and material for containment and cleaning up**

**Small spill**
- Pick up wash liquid with additional absorbent and place in a disposable container.

**Large spill**
- Collect in tightly closed containers.

**6.4. Reference to other sections**

**Reference to other sections**
- Not Applicable

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling**
- Use suitable protective equipment.

**Storage**
- See product labeling.
7.2. Conditions for safe storage, including any incompatibilities

Shelf life: See product labeling

7.3. Specific end use(s)

Specific end use(s): Professional Dental Bonding Resin

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters: Not Determined

8.2. Exposure controls

Eye/face protection: Wear eye protection
Skin protection: Wear suitable protective clothing and gloves.
Respiratory protection: Good general ventilation should be sufficient to control airborne levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Viscous substance
Colour: Beige
Odour: Acrylic

9.2. Other information

Percent volatile: Not Determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable

10.2. Chemical stability

Chemical stability: Stable when stored and handled under recommended conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization: Stable when stored and handled under recommended conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames, ignition sources, direct light, and incompatibles.

10.5. Incompatible materials

Incompatible materials: Not Determined

10.6. Hazardous decomposition products

Hazardous decomposition products: None known.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Acute

Notes: Device is biocompatible when used as directed by dental professionals per ISO 10993-1.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity (acute)

- 96-hour LC$_{50}$: Not Determined
- 48-hour EC$_{50}$: Not Determined
- 96-hour EC$_{50}$: Not Determined

12.2. Persistence and degradability

Persistence and degradability: Not Determined

12.3. Bioaccumulative potential

Bioaccumulative potential: Not Determined

12.4. Mobility in soil

Mobility in soil: Not Determined

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: Not Determined

12.6. Other adverse effects

Environmental data: Do not flush to sewer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods


SECTION 14: Transport information

14.1. UN number

UN number: N/A

14.2. UN proper shipping name

UN proper shipping name: Not Dangerous Goods

14.3. Transport hazard class(es)

Hazard classification: N/A

14.4. Packing group

Packing group: N/A

14.5. Environmental hazards
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

PermaQuick® Bond Resin

Marine pollutant #1 : N/A

14.6. Special precautions for user

ADR - road : Not Dangerous Goods
RID - rail : Not Dangerous Goods
IMDG - sea : Not Dangerous Goods
IATA - air : Not Dangerous Goods

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk : Not Dangerous Goods

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
RoHS : Please refer to Medical Devices Directive 93/42/EEC

15.2. Chemical safety assessment
Chemical safety assessment : See Section 11
Additional information : This product is not considered dangerous for transportation

SECTION 16: Other information

Relevant R-phrases and/or H-statements (number and full text) : R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R36/38: Irritating to eyes and skin.
R43: May cause sensitization by skin contact.
Acute Tox. (D), Cat. 4: Acute Toxicity (Dermal), Category 4
Acute Tox. (O), Cat. 4: Acute Toxicity (Oral), Category 4
Eye Irr., Cat. 2: Eye Irritation, Category 2
Skin Irr., Cat. 2: Skin Irritation, Category 2
Skin Sens., Cat. 1: Skin Sensitization, Category 1
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Prepared by : Anu Kattoju
Revision summary : This SDS replaces the 04/06/2015 SDS. Revised: Section 14: Section 15: COMMENTS.

General statements : N/A= Not Applicable
Manufacturer disclaimer : FOR DENTAL USE ONLY: Use as directed. The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate; however, the manufacturer, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and
PermaQuick® Bond Resin
determine whether they are appropriate.