# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use

## Peak® Universal Bond

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

1. **Product identifier**
   - Product code: DC/71057
   - Product name: Peak® Universal Bond
   - Product description: Light Cured Adhesive With Chlorhexidine (0.2%)

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

   Relevant identified uses: Professional Use Dental Adhesive

1.3. **Details of the supplier of the safety data sheet**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Distributor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultradent Products, Inc.</td>
<td>UP Dental GmbH</td>
</tr>
<tr>
<td>505 W. 10200 S.</td>
<td>Am Westhover Berg 30</td>
</tr>
<tr>
<td>South Jordan, UT 84095</td>
<td>51149 Cologne Germany</td>
</tr>
</tbody>
</table>

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

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

2.2. **Label elements**

   Classification according to Directive 1999/45/EC

   - Hazard pictogram(s): ![F](Highly flammable) ![Xi](Irritant)
   - R&S statement(s): R36/38: Irritating to eyes and skin. R43: May cause sensitization by skin contact.

2.3. **Other hazards**

   Immediate concerns: Not Applicable

### SECTION 3: Composition / information on ingredients

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

Date Issued : 9/10/2012  
SDS No : 206-001.4  
Date Revised : 3/4/2014  
Revision No : 3  

Peak® Universal Bond

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>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>&lt; 20</td>
<td>F;Xn; R22; R36/37/38</td>
</tr>
<tr>
<td>2-hydroxyethyl Methacrylate</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>&lt;= 16</td>
<td>Xi; R43; R36/38</td>
</tr>
<tr>
<td>Methacrylic Acid</td>
<td>79-41-4</td>
<td>201-204-4</td>
<td>&lt;= 6</td>
<td>C; R34</td>
</tr>
<tr>
<td>Chlorhexidine di(acetate)</td>
<td>56-95-1</td>
<td>200-302-4</td>
<td>&lt; 0.3</td>
<td>Xn; R22; R36/37/38; R50</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. Get medical attention, if irritation persists.

Following skin : Wash with soap and water. Get medical attention if irritation develops or persists.

Following ingestion : If swallowed, rinse mouth with water, Do NOT Induce Vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Following inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Eyes : May cause serious damage.

Skin : May cause skin irritation and sensitization.

Ingestion : May be harmful if swallowed.

Inhalation : Maybe harmful if inhaled.

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

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: Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

Large spill: Absorb with inert, damp non-combustible material, then flush area with water.

6.4. Reference to other sections

Reference to other sections: Not Applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling: Keep away from heat, sparks and flame.
Storage: Refrigerate if not used on daily basis.

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 Use Dental Adhesive Material

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters: Not Determined

8.2. Exposure controls

Eye/face protection: Wear eye protection
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Peak® Universal Bond

Skin protection : S36/37: Wear suitable protective clothing and gloves.
Respiratory protection : S51: Use only in well-ventilated areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Light yellow opaque resin.
Odour : Acrylic, pungent

9.2. Other information
Percent volatile : Not Determined

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable : Yes

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

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions : Polymerization occurs when exposed to visible lights, ultraviolet light or extreme heat.

10.4. Conditions to avoid
Conditions to avoid : Avoid light exposure.

10.5. Incompatible materials
Incompatible materials : None known.

10.6. Hazardous decomposition products
Hazardous decomposition products : None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute
Dermal LD$_{50}$ : Not Determined
Oral LD$_{50}$ : Not Determined
Inhalation LC$_{50}$ : Not Determined

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity (acute) : Do not allow to enter sewers or drains that may lead to waterways.
96-hour LC$_{50}$ : Not Determined
# SAFETY DATA SHEET

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

---

**Peak® Universal Bond**

48-hour EC\textsubscript{50} : Not Determined  
96-hour EC\textsubscript{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** : Stable when stored and handled under recommended conditions.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## SECTION 14: Transport information

### 14.1. UN number
**UN number** : 1987

### 14.2. UN proper shipping name
**UN proper shipping name** : Alcohols, n.o.s. (Ethyl alcohol mixture)

### 14.3. Transport hazard class(es)
**Primary hazard class/division** : 3  
**Hazard classification** : 3

### 14.4. Packing group
**Packing group** : III

### 14.5. Environmental hazards
**Marine pollutant #1** : N/A

### 14.6. Special precautions for user
**ADR - road** : N/A  
**RID - rail** : N/A  
**IMDG - sea** : N/A  
**IATA - air** : N/A

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Date Issued : 9/10/2012
SDS No : 206-001.4
Date Revised : 3/4/2014
Revision No : 3

Peak® Universal Bond

Transport in bulk : N/A

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 : Not Determined

SECTION 16: Other information

Relevant R-phrases and/or H-statements (number and full text)
- R22: Harmful if swallowed.
- R34: Causes burns.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R36/38: Irritating to eyes and skin.
- R43: May cause sensitization by skin contact.
- R50: Very toxic to aquatic organisms.

Prepared by : Anu Kattoju
Revision summary : This MSDS replaces the 10/24/2012 MSDS. Revised:
- Section 1: GENERAL USE.
- Section 2: EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS (INHALATION, INGESTION).
- Section 3: wt.%. Section 4: NOTES TO PHYSICIAN, SIGNS AND SYMPTOMS OF OVEREXPOSURE (INGESTION, INHALATION, SKIN).
- Section 5: EXPLOSION HAZARDS, EXTINGUISHING MEDIA, FIRE EXPLOSION, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT.
- Section 6: GENERAL PROCEDURES.
- Section 7: SHELF LIFE.
- Section 8: PERCENT VOLATILE.
- Section 10: HAZARDOUS DECOMPOSITION PRODUCTS, INCOMPATIBLE MATERIALS, STABLE, POSSIBILITY OF HAZARDOUS REACTIONS.
- Section 11: ACUTE (ORAL LD₅₀ (rat), INHALATION LC₅₀ (rat)), SKIN EFFECTS.
- Section 12: CHEMICAL FATE INFORMATION, DISTRIBUTION, BIOACCUMULATION/ACCUMULATION, AQUATIC TOXICITY (ACUTE), AQUATIC TOXICITY (ACUTE) (48-HOUR EC₅₀, 96-HOUR EC₅₀).
- Section 12: Ecological information.
- Section 14: AIR (ICAO/IATA) - SPECIAL PROVISIONS ROAD AND RAIL (ADR/RID) (UN NUMBER), VESSEL (IMO/IMDG) (SPECIAL PROVISIONS), ROAD AND RAIL (UK only) (CDG) - SPECIAL PROVISIONS.
- Section 15: RoHS, SECTION 15: Regulatory information.
- Section 16: GENERAL STATEMENTS.

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 MSDS(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
Peak® Universal Bond

recommendations in the specific context of the intended use and determine whether they are appropriate.