

# SAFETY DATA SHEET

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

**ULTRADENT**  
PRODUCTS, INC.

Date Issued : 02/23/2006  
SDS No : 26-001.9  
Date Revised : 04/10/2015  
Revision No : 9

**PQ1™**

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

### 1.1. Product identifier

**Product code** : PO/63311  
**Product name** : PQ1™  
**Product description** : Single resin bonding agent

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

**Relevant identified uses** : Professional Dental Bonding Agent

### 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** : F, Xi  
**R phrases** : R36, R22

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

**Health** : Eye Irritation, Category 1  
Acute Toxicity (Oral), Category 4  
**Environmental** : Flammable Liquids, Category 2

### 2.2. Label elements

**Classification according to Directive 1999/45/EC**

**Hazard pictogram(s)** :



**R&S statement(s)** : R36: Irritating to eyes.  
R22: Harmful if swallowed.



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

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**Hazard pictogram(s) :**    
 Exclamation mark  
 Flame mark

**Signal Word** : WARNING

**Hazard statement(s)** : H302: Harmful if swallowed.  
 H225: Highly flammable liquid and vapour.

**Precautionary statement(s)**

**Prevention** : P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response** : P305: IF IN EYES:  
 P351: Rinse cautiously with water for several minutes.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P301: IF SWALLOWED:  
 P311: Call a POISON CENTER or doctor/physician.  
 P330: Rinse mouth.  
 P331: Do NOT induce vomiting.

**Storage** : P273: Avoid release to the environment.

**Disposal** : P501: Dispose of in compliance with governmental regulation.(EC 1975L0442-20/11/2003)

**2.3. Other hazards**

**Immediate concerns** : Highly Flammable

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

**3.1. Substances**

Not Applicable

**3.2. Mixtures**

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Chemical Name	CAS	EINECS No.	Wt. %	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008 [CLP]
Ethyl Alcohol	64-17-5	200-578-6	< 10	F; R11	Flam. Liq., Cat. 2; H225
2-hydroxyethyl Methacrylate	868-77-9	212-782-2	< 15	Xi; R43; R36/38	Eye Irr., Cat. 2; Skin Irr., Cat. 2; Skin Sens., Cat. 1; H315; H317; H319
Methacrylic Acid	79-41-4	201-204-4	< 10	C; R34	Acute Tox. (D), Cat. 4; Acute Tox. (O), Cat. 4; Skin Corr., Cat. 1A; H302; H312; H314
Ethyl-4-Dimethylamino Benzoate	10287-53-3	233-634-3	< 5	Xi; R36/37/38	H302; H411

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** : 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**

- Eyes** : Causes eye irritation.
- Skin** : May cause skin irritation and sensitization.

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**Ingestion** : May be harmful if swallowed.  
**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

**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 fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

**Fire fighting equipment** : Foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

### 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** : See product labeling.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Shelf life** : See product labeling

#### 7.3. Specific end use(s)

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**Specific end use(s) :** Professional Dental Bonding Agent

## 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 :** Liquid, medium viscosity

**Appearance :** Yellow resin

**Colour :** Yellow

**Odour :** Acrylic, pungent

### 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 :** None

### 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**

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**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)** : Do not allow to enter sewers or drains that may lead to waterways.  
**96-hour LC<sub>50</sub>** : Not Determined  
**48-hour EC<sub>50</sub>** : Not Determined  
**96-hour EC<sub>50</sub>** : 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** : Not defined

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal method** : Dispose of in compliance with governmental regulation.(EC 1975L0442-20/11/2003)

**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)**

**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**

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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

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 : See Section 11

#### SECTION 16: Other information

**Relevant R-phrases and/or H-statements (number and full text)** : R11: Highly flammable.  
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.  
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  
Flam. Liq., Cat. 2: Flammable Liquids, Category 2  
Skin Corr., Cat. 1A: Skin Corrosion, Category 1A  
Skin Irr., Cat. 2: Skin Irritation, Category 2  
Skin Sens., Cat. 1: Skin Sensitization, Category 1  
H225: Highly flammable liquid and vapour.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H411: Toxic to aquatic life with long lasting effects.

**Prepared by** : Anu Kattoju

**Revision summary** : This SDS replaces the 01/29/2015 SDS. Revised: **Section 1:** . **Section 2:** . **Section 8:** PERSONAL PROTECTIVE EQUIPMENT - SKIN. **Section 10:** HAZARDOUS POLYMERIZATION. **Section 11:** ACUTE ( ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat) ACUTE. **Section 12:** ENVIRONMENTAL DATA. **Section 14:** VESSEL (IMO/IMDG) - MARINE POLLUTANT #1. **Section 15:** SECTION 15: Regulatory information.

**General statements** : N/A= Not Applicable

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**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 determine whether they are appropriate.