

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 2/23/2006

SDS No : 26-001.8

Date Revised : 1/29/2015

Revision No : 8

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**

Danger symbols : F,Xi
R phrases : R36,R22

2.2. Label elements**Classification according to Directive 1999/45/EC**

Hazard pictogram(s) : F

Highly
flammable Xi

Irritant

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

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

SAFETY DATA SHEET

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Dental Use

ULTRADENT
PRODUCTS, INC.

Date Issued : 2/23/2006
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PQ1™

Hazard pictogram(s) :  
Exclamation mark Flame

Signal Word : WARNING

Hazard statement(s) : H320: Causes eye irritation.
H302: Harmful if swallowed.

2.3. Other hazards

Immediate concerns : Highly Flammable

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt. %	Classification according to Directive 67/548/EEC
Ethyl Alcohol	64-17-5	200-578-6	< 10	F; R11
2-hydroxyethyl Methacrylate	868-77-9	212-782-2	< 15	Xi; R43; R36/38
Methacrylic Acid	79-41-4	201-204-4	< 10	C; R34
Ethyl-4-Dimethylamino Benzoate	10287-53-3	233-634-3	< 5	Xi; R36/37/38

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

SAFETY DATA SHEET
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 Dental Use



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Date Revised : 1/29/2015
Revision No : 8

PQ1™

symptoms develop.

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

Eyes	: Causes eye irritation.
Skin	: May cause skin irritation and sensitization.
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 ₂).

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

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



Date Issued : 2/23/2006
SDS No : 26-001.8
Date Revised : 1/29/2015
Revision No : 8

PQ1™

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)

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 : S36/37: 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 : Will not occur.

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 : None known.

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 2/23/2006
SDS No : 26-001.8
Date Revised : 1/29/2015
Revision No : 8

PQ1™

products

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute**

Dermal LD₅₀ : Not Determined
Oral LD₅₀ : Not Determined
Inhalation LC₅₀ : 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 LC₅₀ : Not Determined
48-hour EC₅₀ : Not Determined
96-hour EC₅₀ : 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**

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)

SAFETY DATA SHEET
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Date Issued : 2/23/2006
SDS No : 26-001.8
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Revision No : 8

PQ1™

Hazard classification : 3

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Marine pollutant #1 : Not Applicable

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

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) : 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.

Prepared by : Anu Kattoju

Revision summary : This SDS replaces the 4/5/2013 SDS. Revised: **Section 1: GENERAL USE. Section 10: HAZARDOUS POLYMERIZATION, STABLE.**

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

SAFETY DATA SHEET



Date Issued : 9/6/2012
 MSDS No : 7-001.11
 Date-Revised : 9/24/2012
 Revision No : 12

Ultra-Etch®

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Ultra-Etch®

PRODUCT DESCRIPTION: Phosphoric Acid dentin etchant

PRODUCT CODE/ PART #: UX/10947

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS	Classification	Wt.%
Phosphoric Acid	7664-38-2	231-633-2	C; R34	32 - 38
Cobalt aluminate blue spinel	1345-16-0	310-193-6	R36/37/38, R22	< 1
Cobalt zinc aluminate blue spinel	68186-87-8	269-049-5	R36/37/38, R22	< 1

(Full text of R-Phrases can be found under heading 16)

3. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"C" - Corrosive
 R34: Causes burns.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Corrosive. Will cause eye burns and permanent tissue damage.

POTENTIAL HEALTH EFFECTS

EYES: Causes severe eye burns.

SKIN: Corrosive, causes skin burning.

INGESTION: Harmful if swallowed.

INHALATION: R37: Irritating to respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

INGESTION: May cause chemical burns to the mouth and throat. May also cause a burning sensation, swallowing difficulties, vomiting, diarrhea and possible shock.

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

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

SAFETY DATA SHEET



Date Issued : 9/6/2012
 MSDS No : 7-001.11
 Date-Revised : 9/24/2012
 Revision No : 12

Ultra-Etch®

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.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

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: Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spills immediately, observing precautions in Protective Equipment section.

LARGE SPILL: Absorb with inert, damp non-combustible material, then flush area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow to enter sewers or drains that may lead to waterways.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin and clothing.

HANDLING: Use suitable protective equipment.

STORAGE: Room Temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear eye protection

SKIN: S36/37: Wear suitable protective clothing and gloves.

RESPIRATORY: S51: Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Gel

ODOR: Odorless or no characteristic odor

COLOR: Blue

SOLUBILITY IN WATER: Partially soluble in water.

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable when stored and handled under recommended conditions.

CONDITIONS TO AVOID: Avoid strong bases, Metals. Excess heat, exposure to moist air or water.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphine, oxides of phosphorous, hydrogen gas

INCOMPATIBLE MATERIALS: Strong caustics, most metals.

SAFETY DATA SHEET



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Ultra-Etch®

COMMENTS: Reacts with bases to form phosphate salts and is corrosive (especially when hot) to many metals and alloys. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, and reacts violently with sodium tetrahydroborate. Forms flammable gases with sulfides, mercaptans, cyanides, and aldehydes. Also forms toxic fumes with cyanides, sulfides, fluorides, organic peroxides, and halogenated organics.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Causes severe eye burns.

SKIN EFFECTS: Corrosive, causes skin burning.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Water pollutant

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in compliance with governmental regulation. (EC 1975L0442-20/11/2003)

14. TRANSPORT INFORMATION

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

HAZARD CLASS: 8

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

UN/NA NUMBER: 1760

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

UN/NA NUMBER: 1760

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

LIMITED QUANTITY: 1 L

15. REGULATORY INFORMATION

EUROPEAN COMMUNITY

SAFETY DATA SHEET



Date Issued : 9/6/2012
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 Revision No : 12

Ultra-Etch®

EEC LABEL SYMBOL AND CLASSIFICATION



"C" - Corrosive
 R34: Causes burns.

COMMENTS IARC has identified Cobalt and Cobalt compounds as "possibly carcinogenic" as a group, however IARC did not specifically identify the cobalt compound in this product as a possible carcinogen.

OSHA- Select Carcinogens: Present

16. OTHER INFORMATION

RELEVANT R-PHRASES: R34: Causes burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

R22: Harmful if swallowed.

PREPARED BY: Anu Kattoju

REVISION SUMMARY: This MSDS replaces the 7/26/2011 MSDS. Revised: **Section 1:** Date Issued, PREPARED BY, PRODUCT CODE/PART #. **Section 2:** SIGNS AND SYMPTOMS OF OVEREXPOSURE (INHALATION, SKIN). **Section 7:** STORAGE. **Section 11:** EYE EFFECTS. **Section 15:** COMMENTS.

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