

# 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

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

#### 1.1. 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

##### Manufacturer

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

##### Distributor

UP Dental GmbH  
Am Westhover Berg 30  
51149 Cologne Germany  
**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** : R36/38 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

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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	< 20	F;Xn; R22; R36/37/38
2-hydroxyethyl Methacrylate	868-77-9	212-782-2	<= 16	Xi; R43; R36/38
Methacrylic Acid	79-41-4	201-204-4	<= 6	C; R34
Chlorhexidine di(acetate)	56-95-1	200-302-4	< 0.3	Xn; R22; R36/37/38; R50

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.

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### 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** : 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

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**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<sub>50</sub>** : Not Determined

**Oral LD<sub>50</sub>** : Not Determined

**Inhalation LC<sub>50</sub>** : 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<sub>50</sub>** : Not Determined

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**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** : 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)

**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

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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:** . **Section 9:** PERCENT VOLATILE. **Section 10:** HAZARDOUS DECOMPOSITION PRODUCTS, INCOMPATIBLE MATERIALS, STABLE, POSSIBILITY OF HAZARDOUS REACTIONS. **Section 11:** ACUTE ( ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat) ), SKIN EFFECTS. **Section 12:** CHEMICAL FATE INFORMATION, DISTRIBUTION, BIOACCUMULATION/ACCUMULATION, AQUATIC TOXICITY (ACUTE), AQUATIC TOXICITY (ACUTE) ( 48-HOUR EC<sub>50</sub>, 96-HOUR EC<sub>50</sub> ), 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

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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.



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## 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.

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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

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## 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.

**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.