

**SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 01/18/2006

SDS No : 4-001.11

Date Revised : 04/10/2015

Revision No : 15

**Ultradent® Porcelain Etch****SECTION 1 : Identification of the substance/preparation and of the company/undertaking****1.1. Product identifier**

**Product code** : PE/ 10324  
**Product name** : Ultradent® Porcelain Etch  
**Product description** : Acid Etching solution

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

**Relevant identified uses** : Professional Dental Acid Etching Solution

**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** : T+,C

**R phrases** : R26/27/28,R35

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


**Health** : Skin Corrosion, Category 1A  
 Acute Toxicity (Inhalation), Category 1  
 Acute Toxicity (Oral), Category 1

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

**Hazard pictogram(s)** : T+ C



Very toxic



Corrosive

**R&S statement(s)** : R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

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**ULTRADENT**  
 PRODUCTS, INC.

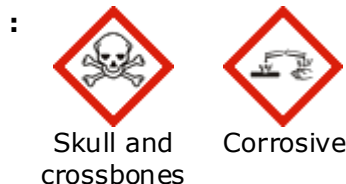
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R35: Causes severe burns.

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

**Hazard pictogram(s)**



**Signal Word**

: DANGER

**Hazard statement(s)**

: H331: Toxic if inhaled.  
 H301: Toxic if swallowed.  
 H311: Toxic in contact with skin.  
 H314: Causes severe skin burns and eye damage.

**Precautionary statement(s)**

**Prevention**

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

**Response**

: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P315: Get immediate medical advice/attention.  
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P313: Get medical advice/attention.  
 P301: IF SWALLOWED:  
 P310: Immediately call a POISON CENTER or doctor/physician.  
 P331: Do NOT induce vomiting.  
 P330: Rinse mouth.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**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**

: Toxic by inhalation, ingestion, and skin contact.

**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]
Hydrofluoric Acid	7664-39-3	231-634-8	< 10	C,+T; R26/27/28; R35	Skin Corr.,Cat. 1A; Acute Tox. (I),Cat. 1; Acute Tox. (O),Cat. 1; H300; H310; H314; H330

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** : Remove contact lenses before flushing. With eyelids held open, flush immediately with lukewarm water for at least 15 minutes. DO NOT use an eye ointment. If a physician is not immediately available, apply 1-2 drops of 0.5% Pontocaine Hydrochloride solution. Get immediate medical attention.
- Following skin** : Flush skin with large amounts of water and remove contaminated clothing, watches, etc. After the water rinse, rub "Calcium Gluconate" thoroughly into the skin. Seek medical attention for all burns, regardless of how minor they may seem.
- Following ingestion** : DO NOT INDUCE VOMITING -SEEK MEDICAL ADVICE IMMEDIATELY! Rinse mouth thoroughly and give large amounts of milk or water if person is conscious. After ingestion of fluorides, give milk or Calcium Gluconate orally. Transport to hospital if there is any suspicion of ingestion.
- Following inhalation** : Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

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

- Eyes** : Causes severe eye burns.
- Skin** : Contact causes severe skin irritatin and possible burns.
- Ingestion** : Toxic if swallowed.
- Inhalation** : Toxic if inhaled

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

- Notes to physician** : Toxic by inhalation, skin contact and ingestion.

**SECTION 5: Fire fighting measures**

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**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**

**Special protective equipment** : Wear suitable protective clothing, gloves and eye/face protection.

**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** : Dilute with water and mop up, or absorb with inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**Large spill** : Absorb with fly ash or cement powder. Neutralize with soda ash or caustic soda. Collect carefully in tightly closed containers. DO NOT TOUCH SPILLED MATERIAL.

**6.4. Reference to other sections**

**Reference to other sections** : Not Applicable

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling** : Will attack glass and most ceramics. May attack some metals. Use personal protective equipment in a well-ventilated area.

**Storage** : Keep container tightly closed in a cool place.

**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 Acid Etching Solution

**SECTION 8: Exposure controls / personal protection**

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**8.1. Control parameters**

**Control parameters** : Not Determined

**8.2. Exposure controls**

**Eye/face protection** : Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**Skin protection** : Wear suitable protective clothing and gloves.

**Respiratory protection** : Use only in well-ventilated areas.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Physical state** : Gel

**Colour** : Yellow

**Odour** : Acidic, DO NOT SMELL

**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 strong bases, Metals, Metal oxides, Inorganic acids, Organic anhydrides, Glass, and Intense Heat.

**10.5. Incompatible materials**

**Incompatible materials** : Not Determined

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fluorine gas. Hydrogen is formed in contact with metals. Heating may liberate hazardous corrosive vapors.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute**

**Notes** : Device is a strong acid and is extremely toxic. It is to be used only as directed with PPE, and only by licensed dental professionals.

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**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 Available

**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** : 2922

**14.2. UN proper shipping name**

**UN proper shipping name** : Corrosive Liquid, Toxic n.o.s. (Hydrofluoric acid mixture)

**14.3. Transport hazard class(es)**

**Primary hazard class/division** : 8(6.1)

**Hazard classification** : 8(6.1)

**14.4. Packing group**

**Packing group** : II

**14.5. Environmental hazards**

**Marine pollutant #1** : N/A

**14.6. Special precautions for user**

**ADR - road** : N/A

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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)** : R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.  
 R35: Causes severe burns.  
 Acute Tox. (I), Cat. 1: Acute Toxicity (Inhalation), Category 1  
 Acute Tox. (O), Cat. 1: Acute Toxicity (Oral), Category 1  
 Skin Corr., Cat. 1A: Skin Corrosion, Category 1A  
 H300: Fatal if swallowed.  
 H310: Fatal in contact with skin.  
 H314: Causes severe skin burns and eye damage.  
 H330: Fatal if inhaled.

**Prepared by** : Anu Kattoju

**Revision summary** : This SDS replaces the 01/27/2015 SDS. Revised: **Section 1:** . **Section 2:** . **Section 6:** SPECIAL PROTECTIVE EQUIPMENT. **Section 8:** PERSONAL PROTECTIVE EQUIPMENT - SKIN. **Section 10:** HAZARDOUS POLYMERIZATION, STABLE. **Section 11:** ACUTE ( ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat) ACUTE. **Section 15:** 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 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.