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

Date Issued: 1/18/2006
SDS No: 4-001.10
Date Revised: 6/23/2014
Revision No: 14

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: UP Dental GmbH
Am Westhover Berg 30
51149 Cologne Germany
Email: info@updental.de
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: T+, C
R phrases: R26/27/28, R35

2.2. Label elements
Classification according to Directive 1999/45/EC
Hazard pictogram(s): T+, C

R&S statement(s): R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
R35: Causes severe burns.

Classification according to Regulation (EC) No 1272/2008 [CLP]
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

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

Date Issued: 1/18/2006
SDS No: 4-001.10
Date Revised: 6/23/2014
Revision No: 14

Ultradent® Porcelain Etch

Hazard pictogram(s):
- Skull and crossbones
- Corrosive

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.

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

<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>Hydrofluoric Acid</td>
<td>7664-39-3</td>
<td>231-634-8</td>
<td>&lt; 10</td>
<td>C+,T; R26/27/28; R35</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:
- 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
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Ultradent® Porcelain Etch

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 irritation 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

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
Special protective equipment: S36/37/39: 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
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Ultradent® Porcelain Etch

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 : S3/7: 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

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 : 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 : Gel
Colour : Yellow
Odour : Acidic, DO NOT SMELL

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
Hazardous polymerization : No

10.4. Conditions to avoid
Conditions to avoid : Avoid strong bases, Metals, Metal oxides, Inorganic acids, Organic
## SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

### Ultradent® Porcelain Etch

- **Incompatible materials**: Not Determined
- **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**
- **Dermal LD<sub>50****: Not Determined
- **Oral LD<sub>50****: Not Determined
- **Inhalation LC<sub>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<sub>50****: Not Determined
- **48-hour EC<sub>50****: Not Determined
- **96-hour EC<sub>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**: Not Available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods


### SECTION 14: Transport information
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Date Issued: 1/18/2006
SDS No: 4-001.10
Date Revised: 6/23/2014
Revision No: 14

Ultradent® Porcelain Etch

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
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):
- R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
- R35: Causes severe burns.
- R36: Irritating to eyes.

Prepared by: Anu Kattoju
Revision summary: This SDS replaces the 4/29/2014 SDS. Revised: Section 1: Section 2: Section 14: ROAD AND RAIL (ADR/RID) - UN NUMBER.

General statements: NA = 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
SAFETY DATA SHEET
according to Regulation (EC) No. 453/2010
Dental Use

Ultradent® Porcelain Etch

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.