

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

077640089

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

077340425 077640147 077640154 077640162 077640188

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 09/06/2012

SDS No : 7-001.13

Date Revised : 03/18/2015

Revision No : 14

## Ultra-Etch®

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

#### 1.1. Product identifier

**Product code** : UX/10947  
**Product name** : Ultra-Etch®  
**Product description** : Phosphoric Acid dental etchant

#### 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** : C  
**R phrases** : R34

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

**Health** : Skin Corrosion, Category 1B

#### 2.2. Label elements

This mixture contains Phosphoric Acid. This material is considered hazardous as defined by the OSHA Hazard Communication Standard (29 CFR 1819.1200)

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

**Hazard pictogram(s)** : C



Corrosive

**R&S statement(s)** : R34: Causes burns.

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**Ultra-Etch®****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Hazard pictogram(s)

:



Corrosive

Signal Word

: WARNING

Hazard statement(s)

: 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.

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:

P310: Immediately call a POISON CENTER or doctor/physician.

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

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

**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	Classification according to Regulation (EC) No 1272/2008 [CLP]
Phosphoric Acid	7664-38-2	231-633-2	< 45	C; R34	Skin Corr., Cat. 1B; H314

For full text of H-statements and R-phrases: see SECTION 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

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## Ultra-Etch®

- |                             |   |
|-----------------------------|---|
| <b>Following eyes</b>       | : 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.  |
| <b>Following skin</b>       | : Wash with soap and water. Get medical attention if irritation develops or persists.   |
| <b>Following ingestion</b>  | : 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.                       |
| <b>Following inhalation</b> | : 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

- |                   |                                   |
|-------------------|-----------------------------------|
| <b>Eyes</b>       | : Causes severe eye burns.        |
| <b>Skin</b>       | : Corrosive, causes skin burning. |
| <b>Ingestion</b>  | : Harmful if swallowed.           |
| <b>Inhalation</b> | : None expected for this product. |

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

- |                           |             |
|---------------------------|-------------|
| <b>Notes to physician</b> | : Corrosive |
|---------------------------|-------------|

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

- |                            |   |
|----------------------------|---|
| <b>Extinguishing media</b> | : Please see Fire Fighting Equipment under Section 5.3. |
|----------------------------|---|

### 5.2. Special hazards arising from the substance or mixture

- |                                      |                  |
|--------------------------------------|------------------|
| <b>Hazardous combustion products</b> | : Not Determined |
| <b>Explosion hazards</b>             | : Not Determined |
| <b>Fire explosion</b>                | : Not Determined |
| <b>Sensitive to static discharge</b> | : Not Determined |
| <b>Sensitivity to impact</b>         | : Not Determined |

### 5.3. Advice for firefighters

- |                                 |   |
|---------------------------------|---|
| <b>Fire fighting procedures</b> | : General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire. |
| <b>Fire fighting equipment</b>  | : Non-combustible.  |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- |                           |   |
|---------------------------|---|
| <b>General procedures</b> | : Refer to Section 8 for Personal Protective Equipment. |
|---------------------------|---|

### 6.2. Environmental precautions

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

**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

**General procedures** : Avoid contact with eyes, skin and clothing.

**Handling** : Use suitable protective equipment.

**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 Acid Etching Solution

## 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** : Gel

**Colour** : Blue

**Odour** : Odorless or no characteristic odor

**pH** : < 1

**Solubility in water** : Partially soluble in water.

### 9.2. Other information

**Percent volatile** : Not Determined

## SECTION 10: Stability and reactivity

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## Ultra-Etch®

### 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. Excess heat, exposure to moist air or water.

### 10.5. Incompatible materials

Incompatible materials : Strong caustics, most metals.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Phosphine, oxides of phosphorous, hydrogen gas

Additional information : 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.

## 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.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicity : Not Determined

#### Aquatic toxicity (acute)

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

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**Ultra-Etch®****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** : 1760**14.2. UN proper shipping name****UN proper shipping name** : Corrosive liquid, n.o.s. (Phosphoric acid mixture)**14.3. Transport hazard class(es)****Primary hazard class/division** : 8**Hazard classification** : 8**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****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

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**Ultra-Etch®****SECTION 16: Other information****Relevant R-phrases and/or H-statements (number and full text)**

: R34: Causes burns.  
 Skin Corr., Cat. 1B: Skin Corrosion, Category 1B  
 H314: Causes severe skin burns and eye damage.

**Prepared by**

: Anu Kattoju

**Revision summary**

: This SDS replaces the 02/25/2015 SDS. Revised: **Section 1:**  
 . **Section 2:** . **Section 8:** PERSONAL PROTECTIVE EQUIPMENT -  
 SKIN. **Section 10:** HAZARDOUS POLYMERIZATION.

**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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 09/06/2012

SDS No : 7-001.16

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Revision No : 17

## Ultra-Etch®

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

#### 1.1. Product identifier

Product code : UX/10947  
 Product name : Ultra-Etch®  
 Product description : Phosphoric acid dental etchant

#### 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. Ultradent Drive (10200 South)  
 South Jordan, UT 84095

##### EC Responsible Person

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 Regulation(EC) No 1272/2008 [CLP]

: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Health : Skin Corrosion, Category 1B  
 Acute Toxicity (Inhalation), Category 4

#### 2.2. Label elements

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

Hazard pictogram(s) :



Corrosive



Exclamation  
mark

Signal Word : DANGER

Hazard statement(s) : H314: Causes severe skin burns and eye damage.  
 H332: Harmful if inhaled.

##### Precautionary statement(s)

##### Prevention

: P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P260: Do not breathe dust/fume.  
 P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

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<b>Response</b>	<p>P271: Use only outdoors or in a well-ventilated area.</p> <p>: P301: IF SWALLOWED: P330: Rinse mouth. P331: Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363: Wash contaminated clothing before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<b>Storage</b>	<p>: P273: Avoid release to the environment. P405: Store locked up.</p>
<b>Disposal</b>	<p>: P501: Dispose of in compliance with governmental regulation. (EC 1975L0442-21/11/2003)</p>

### 2.3. Other hazards

Conclusion: The substance does not fulfill the PBT and vPvB criteria for screening assessment; there are no indications of P or B properties.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Not Applicable

### 3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt. %	Classification according to Regulation (EC) No 1272/2008 [CLP]
Phosphoric Acid	7664-38-2	231-633-2	< 40	Skin Corr., Cat. 1B; H314
Cobalt aluminate blue spinel	1345-16-0	310-193-6	< 1	Skin Irr., Cat. 2; Eye Irr., Cat. 2; STOT SE, Cat. 3; H315; H319; H335
Siloxane	NAP	NAP	< 1	STOT SE, Cat. 2; Rep. Tox., Cat. 2; H361f; H373

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Following eyes</b>	: 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.
<b>Following skin</b>	: Remove contaminated clothing. Wash with soap and water.
<b>Following ingestion</b>	: 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 if you feel unwell.
<b>Following inhalation</b>	: Remove to open air. In the event of breathing difficulties get medical

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advice/attention immediately.

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

**Eyes** : Causes severe eye burns.  
**Skin** : Corrosive, causes skin burning.  
**Ingestion** : Harmful if swallowed.  
**Inhalation** : May be harmful if inhaled.

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

**Notes to physician** : Corrosive

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

**Extinguishing media** : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Phosphine, oxides of phosphorous, hydrogen gas

### 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.

## 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** : Clean up spills immediately, observing precautions in Protective Equipment section.

**Large Spill** : Absorb with inert, damp non-combustible material, then flush area with water.

### 6.4. Reference to other sections

**Reference to other sections** : NAP

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**General procedures** : Avoid contact with eyes, skin and clothing.  
**Handling** : Use suitable protective equipment.  
**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 Acid Etching Solution

### SECTION 8: Exposure controls / personal protection

#### 8.1. Control parameters

Control parameters : Phosphoric Acid CAS: 7664-38-2

Control Parameters	Exposure Limits
OSHA PEL General Industry	1 mg/m <sup>3</sup>
OSHA PEL Construction Industry	1 mg/m <sup>3</sup>
OSHA PEL Shipyard Industry	1 mg/m <sup>3</sup>
NIOSH REL	1 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup> STEL
ACGIH TLV	1 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup> STEL
CAL/OSHA PEL	1 mg/m <sup>3</sup>

Cobalt Zinc Aluminate Blue Spinel CAS 68186-87-8  
ACGIH TWA Respirable Fraction: 1 mg/m<sup>3</sup> (Aluminum) 0.02 mg/m<sup>3</sup> (Cobalt)

Siloxane  
REL: 5ppm

#### 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. In case of insufficient ventilation, wear suitable respiratory equipment.

### SECTION 9: Physical and chemical properties

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

**Physical state** : Gel  
**Appearance** : Medium viscosity  
**Colour** : Blue  
**Odour** : Odorless or no characteristic odor  
**pH** : < 1  
**Specific gravity** : 1.3  
**Solubility in water** : Partially Soluble

#### 9.2. Other information

**Additional information** : No further relevant information available

### SECTION 10: Stability and reactivity

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## Ultra-Etch®

### 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 : Strong bases, metals, excess heat, exposure to moist air or water

### 10.5. Incompatible materials

Incompatible materials : Strong caustics, most metals.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Phosphine, oxides of phosphorous, hydrogen gas

Additional information : 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.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute

Dermal LD<sub>50</sub> : > 6100 mg/kg Rabbit

Notes : < 1% of the mixture consists of components of unknown toxicity (Dermal).

Oral LD<sub>50</sub> : > 3400 mg/kg Rat

Notes : < 1% of the mixture consists of components of unknown toxicity (Oral).

Inhalation LC<sub>50</sub> : > 1.9 mg/l/4H Inhalation Category 4 Dust/Mist Rat

Notes : ~1% of the mixture consists of components of unknown toxicity (Inhalation).

Carcinogenicity : Cobalt Zinc Aluminate Blue Spinel may cause cancer according to the SDS.

Reproductive toxicity : WARNING! This product contains a chemical known to cause birth defects or other reproductive harm. Siloxane

Other information : 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.

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity (acute) : Do not allow to enter sewers or drains that may lead to waterways.

### 12.2. Persistence and degradability

Persistence and degradability : Not classified

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### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not classified

### 12.4. Mobility in soil

Mobility in soil : Not Available

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : Conclusion: The substance does not fulfill the PBT and vPvB criteria for screening assessment; there are no indications of P or B properties.

### 12.6. Other adverse effects

Environmental data : No further relevant information 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 : 1760

### 14.2. UN proper shipping name

UN proper shipping name : Corrosive liquid, n.o.s. (Phosphoric acid mixture)

### 14.3. Transport hazard class(es)

Primary hazard class/division : 8

Hazard classification : 8

### 14.4. Packing group

Packing group : III

### 14.5. Environmental hazards

Marine pollutant #1 : NAP

### 14.6. Special precautions for user

ADR - road : NAP

RID - rail : NAP

IMDG - sea : NAP

IATA - air : NAP

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk : NAP

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

General information : Substances of very high concern (SVHC) according to REACH, Article 57:  
Contains no SVHC substances.

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**General comments** : Please refer to Medical Devices Directive 93/42/EEC.

### 15.2. Chemical safety assessment

**Chemical safety assessment** : See Section 11

**Additional information** : WARNING! This product contains a chemical known to cause birth defects or other reproductive harm: Siloxane  
WARNING! Cobalt Zinc Aluminate Blue Spinel may cause cancer according to the SDS.

### SECTION 16: Other information

**Relevant H-statements (number and full text)** : Eye Irr., Cat. 2: Eye Irritation, Category 2  
Rep. Tox., Cat. 2: Reproductive Toxicity, Category 2  
STOT SE, Cat. 2: Target Organ Toxicity (Single exposure), Category 2  
STOT SE, Cat. 3: Target Organ Toxicity (Single exposure), Respiratory Tract Category 3  
Skin Corr., Cat. 1B: Skin Corrosion, Category 1B  
Skin Irr., Cat. 2: Skin Irritation, Category 2  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H361f: Suspected of damaging fertility.  
H373: May cause damage to organs (lungs) through prolonged or repeated exposure.

**Prepared by** : Anu Kattoju

**Revision summary** : This SDS replaces the 12/22/2015 SDS. Revised: **Section 1**: MSDS No. **Section 2**: EMERGENCY OVERVIEW - IMMEDIATE CONCERNS 2.3. Other hazards. **Section 4**: INHALATION, SIGNS AND SYMPTOMS OF OVEREXPOSURE - INHALATION. **Section 5**: EXTINGUISHING MEDIA, FIRE FIGHTING EQUIPMENT. **Section 6**: **Section 8**: PERSONAL PROTECTIVE EQUIPMENT - RESPIRATORY. **Section 9**: APPEARANCE, COMMENTS, PERCENT VOLATILE, SPECIFIC GRAVITY. **Section 11**: ACUTE (DERMAL LD<sub>50</sub> (rabbit), DERMAL LD<sub>50</sub> (rabbit), DERMAL LD<sub>50</sub> (rabbit), ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat) ACUTE, GENERAL COMMENTS, CARCINOGENICITY, REPRODUCTIVE TOXICITY. **Section 12**: CHEMICAL FATE INFORMATION, DISTRIBUTION, ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA, BIOACCUMULATION/ACCUMULATION, AQUATIC TOXICITY (ACUTE) (48-HOUR EC<sub>50</sub>, 96-HOUR EC<sub>50</sub>), SECTION 12: Ecological information. **Section 14**: VESSEL (IMO/IMDG) - MARINE POLLUTANT #1 ROAD AND RAIL (UK only) (CDG) - SPECIAL PROVISIONS SECTION 14: Transport information, ADR - road, IMDG - sea, IATA - air. **Section 15**: COMMENTS, GENERAL COMMENTS, RoHS. **Section 16**: GENERAL STATEMENTS.

**General statements** : NAP = Not Applicable  
NE = Not Established  
TLV = Threshold Limit Value

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



**Date Issued :** 09/06/2012  
**SDS No :** 7-001.16  
**Date Revised :** 03/27/2017  
**Revision No :** 17

**Ultra-Etch®**

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PEL = Permittable exposure limits  
MAK = Maximum Workplace Concentration  
STEL = Short-term exposure limit  
STEV = Short-term exposure value  
TWA = Time Weighted Average  
PPE = Personal Protective Equipment

**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.