

# SAFETY DATA SHEET



Date Issued: 01/19/2006  
 MSDS No: 7-001.8  
 Date-Revised: 09/27/2007  
 Revision No: 9

## Ultra-Etch®

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

**PRODUCT NAME:** Ultra-Etch®

**PRODUCT DESCRIPTION:** Phosphoric acid dentin etchant

#### **MANUFACTURER**

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

#### **24 HR. EMERGENCY TELEPHONE NUMBERS**

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

### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	EINECS	Classification	Content
Phosphoric Acid	007664-38-2	231-633-2	C; R34	32 - 38

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

### **3. HAZARDS IDENTIFICATION**

#### **HAZARD DESIGNATION**

"C" - Corrosive

"N" - Dangerous for the environment

R50: Very toxic to aquatic organisms.

"T" - Toxic

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

#### **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**

**EYES:** Causes eye irritation.

**SKIN:** Contact with skin may cause burns.

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

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

### **4. FIRST AID MEASURES**

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**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.

**INGESTION:** If swallowed, 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:** Store in a tightly closed container.

## 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

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### **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.

**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:** Severe eye irritation

**SKIN EFFECTS:** Contact with skin may cause burns.

### **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

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### 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

##### EEC LABEL SYMBOL AND CLASSIFICATION



"C" - Corrosive  
 R34: Causes burns



"N" - Dangerous for the environment  
 R50: Very toxic to aquatic organisms.



"T" - Toxic  
 R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

### 16. OTHER INFORMATION

**RELEVANT R-PHRASES:** R34: Causes burns.

**PREPARED BY:** Iris McCallister

**REVISION SUMMARY:** Revision #: 9 This MSDS replaces the August 20, 2007 MSDS. Any changes in information are as follows: In Section 1 MSDS Number

**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, Ultradent Products, Inc., 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.