

**IDENTITY:** Trade Name: Pulpdent Etch-All Dental Etching Gel  
Chemical Description: 10% Phosphoric Acid in a proprietary gel base.  
Product Use: Dental etchant.

**SECTION I**

Pulpdent Corporation  
80 Oakland Street  
Watertown, MA 02472 USA

**Phone Numbers:**  
24 Hour Emergency: (800) 535-5053  
Customer Service: (800) 343-4342 / (617) 926-6666

Date prepared: September 1, 2008

**SECTION II - HAZARDOUS INGREDIENTS**

<i>Ingredient</i>	<i>CAS RN</i>	<i>PEL/TLV</i>	<i>UN Number</i>
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup> / 3 mg/m <sup>3</sup>	UN 1805

DOT HAZARD CLASS: Class 8, Corrosive material  
WHMIS CLASSIFICATION: E - Corrosive material  
NFPA HMIS RATING: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

**SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS**

Boiling Point: 135°C Specific Gravity: 1.575 Vapor Pressure: 0.0285  
Melting Point: 42°C Solubility in water: Complete Odor Threshold: Not available  
Appearance and Odor: Clear purple gel with characteristic odor.

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: Not combustible Flammable limits: Not applicable  
Extinguishing Media: Use water spray to cool fire-exposed containers. Extinguish fire with agent suitable for surrounding fire.  
Special Fire Fighting Procedures: Wear protective clothing and positive pressure self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of phosphorus.

**SECTION V - REACTIVITY DATA**

Stability: Stable Conditions to avoid: None  
Incompatibility: Avoid contact with materials such as sulfides and sulfites which could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because it can react to liberate hydrogen, a flammable gas.  
Hazardous Decomposition Products: Combustion by-products include oxides of phosphorus.  
Hazardous Polymerization: Does not occur. Conditions to avoid: None

**SECTION VI - HEALTH HAZARD DATA**

**Summary of Acute Hazards:** Corrosive material. Causes eye and skin burns. Material may not produce an immediate burning sensation upon skin contact, delaying awareness that contact has occurred.

<i>Route of Exposure</i>	<i>Signs &amp; Symptoms</i>
Inhalation	None expected under normal conditions of use. However, if inhaled as a mist or if the material is vaporized, it can irritate the respiratory tract.
Eye Contact	Corrosive. May cause burns or irritation.
Skin absorption	Slightly toxic.
Skin Contact	Corrosive. May cause burns or irritation. Burning sensation may be delayed.
Ingestion	Corrosive, slightly toxic. May cause burns / irritation to the mouth, throat, and gastrointestinal tract.

*Summary of Chronic Hazards:* None known  
Carcinogenicity: Not known to be a carcinogen.  
Reproductive Toxicity, Mutagenicity, Teratogenicity, Special Health Effects: None known

*Emergency First Aid Procedures:*

Inhalation	Remove to fresh air. Seek medical attention if symptoms persist.
Eye contact	Immediately flush with running water for 15+ minutes. Seek medical attention.
Ingestion	Dilute with water/milk. Do not induce vomiting. Seek medical attention.
Skin contact contaminated	Immediately flush with running water for 15+ minutes while removing clothing. Get medical attention. Wash clothing before reuse.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling/Storage Precautions: Store tightly capped in original container. Store in a cool, dry, well-ventilated location away from heat and direct sunlight; avoid alkalies and metals.  
Release/Spill Instructions: Wear gloves and chemical splash goggles. For small quantities: wipe up or absorb with dry paper towels. Place all material in chemical waste container for disposal. Flush area with water.  
Waste Disposal Method: Follow all government regulations.  
Other Precautions: Wash hands after handling. Use with adequate ventilation. Keep container closed.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: Not required under normal conditions of use of this product. If used *in vivo*, a high speed evacuation tip should be used to protect patient. When airborne limits are exceeded, a NIOSH-approved respirator with full face piece is recommended.  
Ventilation: No special ventilation required under normal conditions of use of this product. For larger quantities, use adequate ventilation to keep TLV below 3 mg/m<sup>3</sup>. Local mechanical exhaust ventilation recommended.  
Protective Gloves: Chemically resistant gloves.  
Eye Protection: Chemically resistant splash goggles.  
Other Protective Clothing or Equipment: Wear long sleeves, apron or lab coat over clothing to protect skin. If used *in vivo*, use rubber dam around tooth and high speed evacuator tip or other protective devices for patient. Mask all surrounding tissue. Emergency eye wash fountain should be close by and maintained.  
Work/Hygienic Practices: Wash thoroughly after handling. Clean protective equipment before reuse.

-----  
*The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendation in the specific context of the intended use to determine whether they are appropriate.*