

IDENTITY:

Trade Name: *Pulpdent Etch-Rite Dental Etching Gel*
Codes: ETCH, ET-TWIN, ET-6, ET-12, ET12G, ET-24, ET-144, ET-50, ET50R, ETD50
Chemical Description: 38% Phosphoric Acid in a proprietary gel base.
Product Use: Dental etching material

SECTION I

Pulpdent Corporation Phone Numbers:
80 Oakland Street 24 Hour Emergency: (800) 535-5053
Watertown, MA 02472 USA Customer Service: (800) 343-4342/ (617) 926-6666

Date prepared: September 1, 2007

SECTION II - HAZARDOUS INGREDIENTS

<i>Ingredients</i>	<i>CAS RN</i>	<i>PEL/TLV</i>	<i>UN Number</i>
Phosphoric Acid	7664-38-2	1 mg/m ³ / 3 mg/m ³	UN 1805
Amorphous fumed silica	112945-52-5	6 mg/m ³ / 10 mg/m ³	-----
DOT HAZARD CLASS:	Class 8, III		
WHMIS CLASSIFICATION:	Class E - Corrosive		
NFPA HMIS RATING:	HEALTH: 3	FLAMMABILITY: 0	REACTIVITY: 0

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 135°C Specific Gravity: 1.380 Vapor Pressure: 0.0285
Melting Point: 42°C Solubility in water: Complete
Odor Threshold: Not available Appearance and Odor: Clear blue gel with characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not combustible Flammable limits: LEL and UEL: Not applicable
Extinguishing Media: Use water spray to keep fire-exposed containers cool. Extinguish fire with agent suitable for surrounding fire.
Special Fire Fighting Procedures: Wear protective clothing and positive pressure self-contained breathing apparatus.
Hazardous Combustion Products: 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 phosphoric acid can react to liberate hydrogen, a flammable gas.
Hazardous Decomposition Products: Toxic gases, steam, hydrogen (flammable), 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. Acute effects may be delayed. Contact with material may not produce an immediate burning sensation.

Route of Exposure

Signs & Symptoms

Inhalation	None expected under normal conditions of use of this product. However, if inhaled as a mist or vaporized, it can be irritating to the respiratory tract.
Eye Contact	Corrosive. May cause burns or irritation.
Skin absorption	Slightly toxic.
Skin Contact	Corrosive. Material may cause burns or irritation and may not produce an immediate burning sensation, delaying awareness that contact has occurred.
Ingestion	Corrosive. Slightly toxic. May cause burns or irritation to the mouth, throat or gastrointestinal tract.

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

Emergency First Aid Procedures:

Inhalation	Remove person to fresh air. Seek medical attention if symptoms persist.
Eye contact	Immediately flush with running water for 15+ minutes. pH of tears should be 7 after rinsing. Seek medical care.
Ingestion	Dilute with water or milk. Do not induce vomiting. Seek medical attention.
Skin contact	Immediately flush with running water for 15+ minutes while removing contaminated clothing. Seek medical attention. Wash clothing before reuse.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling and Storage Precautions: Store tightly closed in cool, dry, well-ventilated location away from heat sources and out of direct sunlight. Separate from alkalis and most metals.

Release or Spill: Wear gloves and chemical splash goggles. For small quantities (as in this product): absorb or wipe up spill with dry paper towels. Place all material in chemical waste container for disposal. Flush spill area with water.

Waste Disposal Method: Follow all government regulations.

Other Precautions: Wash thoroughly after handling. Use with adequate ventilation. Keep container closed. Empty container retains vapor and product residue; observe all safeguards.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: None needed 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, local mechanical exhaust ventilation to keep TLV < 3 mg/m³.

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 to be etched and high speed evacuator tip or other protective devices for patient. Mask all surrounding tissue. Emergency eye wash fountain should be available.

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 recommendations in the specific context of the intended use to determine whether they are appropriate.