

**IDENTITY:**

Trade Name: Pulpdent Porcelain Etch Gel Code: PEG, PEG-3, PPK  
Chemical Description: 9.6% Hydrofluoric Acid in a proprietary gel base  
Product Use: Dental etching material

**SECTION I****Pulpdent Corporation**

80 Oakland Street  
Watertown, MA 02472 USA

**Phone Numbers:**

24 Hr. Emergency: (800) 535-5053  
Customer Service: (800) 343-4342/(617) 926-6666

Date prepared: December 1, 2004

**SECTION II - HAZARDOUS INGREDIENTS**

<b><i>Ingredients</i></b>	<b><i>CAS RN</i></b>	<b><i>%</i></b>	<b><i>PEL</i></b>	<b><i>TLV</i></b>
Hydrofluoric Acid	7664-39-3	9.6	3 ppm	3 ppm

WARNING: VERY CORROSIVE ! Even though Porcelain Etch Gel is diluted (9.6%) hydrofluoric acid, which has been buffered and incorporated into a gel, treat this product as very corrosive, i.e., AVOID ALL CONTACT WITH ABOVE PRODUCT.

DOT HAZARD CLASSIFICATION: Corrosive liquid / UN1790; Class 8 / PKG. Gr. II

WHMIS CLASSIFICATION: E - Corrosive material

NFPA HMIS RATING: HEALTH: 4 FLAMMABILITY: 0 REACTIVITY: 1

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 108.33°C mm Hg	Specific Gravity: 1.18	Vapor Pressure: 10.00
Vapor Density: 0.7	Solubility in water: 100%	Odor Threshold: 0.04 ppm
Appearance: Transparent yellow gel		Odor: None

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

Flash Point: None Flammable limits: n/a Extinguishing Media: Carbon dioxide, dry chemical.

Hazardous Combustion Products: Hydrogen fluoride.

Special Fire Fighting Procedures: Self contained breathing apparatus, with a full face piece, operated in a pressure demand or other positive pressure mode. Use extinguishing media appropriate to the surrounding fire conditions. Do not use water.

Unusual Fire and Explosion Hazards: Pressure will build to dangerous levels when closed containers are exposed to high temperatures. Flammable when heated.

**SECTION V - REACTIVITY DATA**

Stability: Stable Conditions to avoid: High temperatures, direct sunlight.

Incompatibility: Alkalies, organic material, metals, bases, glass; material is light sensitive.

Hazardous Decomposition Products: Hydrogen fluoride.

Hazardous Polymerization: Will not occur. Conditions to avoid: None

**SECTION VI - HEALTH HAZARD DATA**

Summary of Acute Hazards: **VERY CORROSIVE.** This product, diluted, buffered hydrofluoric acid in a gel form, presents less of a hazard than liquid hydrofluoric acid. However, to be safe, it should still be

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treated as very corrosive. May be fatal if inhaled, swallowed, or absorbed through skin. Causes severe burns.

**Route of Exposure**

Inhalation

Eye Contact  
burns.

Skin Absorption

Skin Contact

Ingestion

**Signs & Symptoms**

May cause respiratory inflammation / delayed lung injury. May be fatal.

May cause severe burns and loss of vision. Chronic effects. Causes

Causes severe burns. May be fatal.

Causes severe burns, which may be delayed. Destructive to tissue.

Destructive to mucous membranes, delayed sensation of burn. Causes burns in mouth, pharynx, gastrointestinal tract and abdominal pain.

**Summary of Chronic Hazards:** Has not been fully investigated.

Carcinogenicity

Not known to be a carcinogen.

Teratogenicity

Not known

Mutagenicity

Not known

Reproductive Toxicity

Not known

**Emergency First Aid Procedures:**

Inhalation

Remove patient to fresh air. Administer oxygen if breathing is difficult, CPR if breathing has stopped. Get medical care.

Eye contact

Wash eyes and surrounding skin with running water for 15+ minutes. Get medical care.

Ingestion

Give a large quantity of water to dilute, but nothing by mouth if the person is unconscious. Do NOT induce vomiting. Get immediate medical care.

Skin Contact

Apply benzethonium chloride, benzalkonium chloride or calcium gluconate to the exposed area. Wash with running water and soap for 15+ minutes. Get medical care.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE**

**Handling and Storage Precautions:** Keep tightly closed, in a cool, dry, well-ventilated place away from heat, sparks, flame, organic substances and direct sunlight. Do not add any other material to container. Do not wash down the drain. Empty container may contain explosive or flammable residue. Do not allow food consumption or smoking while handling. Do not get in eyes, on skin, or on clothing. Wash well after use.

**Steps to Be Taken if Material is Released or Spilled:** Wear gloves and goggles. For a small spill: Absorb spill with inert material, such as paper towels, and transfer to container for disposal. Wash spill site.

**Waste Disposal Method:** Follow all government regulations.**Other Precautions:** None**SECTION VIII - CONTROL MEASURES**

**Respiratory Protection:** Not necessary in these quantities. Dental staff should wear face mask and use high speed evacuation tip in patient's mouth. Exposure > 3 ppm: self-contained breathing apparatus. Guard against aspiration into lungs.

**Ventilation:** Adequate to maintain exposure below 3 ppm. No special ventilation necessary under anticipated conditions of normal use.

**Protective Gloves:** Neoprene or polyethylene gloves. required.

**Eye Protection:** Safety goggles are required.

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**Other Protective Clothing or Equipment:** Use rubber dam around tooth to be etched and high speed evacuator tip or other protective device for patient if used *in vivo*. Mask all surrounding tissue. Emergency eye wash fountain should be available.

**Work/Hygienic Practices:** Wash hands well after use.

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*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.*