

Porcelain Etch Gel

Material Safety Data Sheet

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 Phone Numbers:

80 Oakland Street 24 Hr. Emergency: (800) 535-5053

Watertown, MA 02472 Customer Service: (800) 343-4342/(617) 926-6666

USA

Date Prepared: January 1, 1999

SECTION II - HAZARDOUS INGREDIENTS

Ingredients CAS RN % PEL TLV

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 Specific Gravity: 1.18

Vapor Pressure: 10.00 mm Hg Melting Point: n/a

Vapor Density: 0.7 Evaporation Rate: n/a

Solubility in water: 100% Odor Threshold: 0.04 ppm

Appearance: Clear yellow gel Odor: None

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: None Flammable limits: LEL n/a UEL 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 treated as very corrosive. May be fatal if inhaled, swallowed, or absorbed through skin. Causes severe burns.

Route of Exposure Signs & Symptoms

Inhalation May cause respiratory inflammation and/or delayed lung injury. May be fatal.

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

Skin Absorption Causes severe burns. May be fatal.

Skin Contact Causes severe burns. Destructive to tissue. Causes burns which may be delayed.

Ingestion Destructive to tissues of mucous membranes. Causes burns in mouth, pharynx, and gastrointestinal tract and abdominal pain. Sensation of burn may be delayed.

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 Call a physician. Remove patient to fresh air. Administer oxygen if breathing is difficult, CPR if breathing has stopped.

Eye contact Call a physician. Wash eyes and skin with copious quantities of water for at least 15 minutes.

Ingestion Call a physician. Give a large quantity of water to dilute, but nothing by mouth if the person is unconscious.

Do NOT induce vomiting.

Skin Contact Apply benzethonium chloride, benzalkonium chloride, or calcium gluconate to the exposed area. Wash skin with copious amounts of water and soap. Call a physician.

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 (as in this product): 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, except for face mask for dental staff and high speed evacuation tip for patient if used *in vivo*. More than 3 ppm: use self-contained breathing apparatus. Guard against aspiration into lungs.

Ventilation: Adequate ventilation to maintain air below 3 ppm. No special ventilation recommended under anticipated conditions of normal use.

Protective Gloves: Neoprene or polyethylene gloves.

Eye Protection: Safety goggles are required.

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.

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.

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