

# Material Safety Data Sheet

## **PORCELAIN ETCHANT**

MSDS, Rev. 2

Last revised: 25-September -2008

Approved for Use: 09-April -2002

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### **1. Chemical product and company identification**

**Product Name:** PORCELAIN ETCHANT

**Company Name:** Premier Dental Products Company  
1710 Romano Drive  
Plymouth Meeting, PA 19462 USA  
Tel: 610-239-6000  
Fax: 610-239-6171  
Emergency Tel: 610-239-6000

### **2. Hazardous Ingredients/Identity Information**

#### **Hazardous Components (Specific Chemical Identity Common Names(s))**

<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits Recommended</b>	<b>% (optional)</b>
Hydrofluoric Acid	7664-39-3	3ppm (TWA)	3ppm	ceiling as F	9.6%

### **3. Physical/Chemical Characteristics**

**Boiling Point:** 108°C (277°F)

**Specific Gravity (H<sub>2</sub>O = 1):** 1.17 – 1.18

**Vapor Pressure (mm Hg.):** 25mmHg @ 20°C

**Melting Point:** Less than -36°C

**Vapor Density (Air = 1):** N/A

**Evaporation Rate (Butyl Acetate = 1):** N/A

**Solubility in Water:** 100%

**Appearance and Odor:** Clear, odorless liquid mixed into a bright yellow proprietary viscous gel form, characteristic acrid odor. Do not breathe fumes.

### **4. Fire and Explosion Hazard Data**

**Flash Point (Method Used):** None

**Flammable Limits:** N/A

**Extinguishing Media:** Water or Carbon Dioxide

**Special Fire Fighting Procedures:** Keep upwind of fire. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus operated in pressure mode.

**Unusual Fire and Explosion Hazards:** Reacts with metals forming flammable gas (hydrogen)

## 5. Reactivity Data

### Stability

<b>Stable:</b>	Yes
<b>Conditions to Avoid:</b>	Extreme heat and sunlight
<b>Incompatibility (Materials to Avoid):</b>	Metals, glass, alkalis, organic materials, bases. Reacts with steam or water to produce toxic fumes.
<b>Hazardous Decomposition or Byproducts:</b>	Hydrogen gas; silicon tetrafluoride.
<b>Hazardous Polymerization:</b>	Will not occur

## 6. Health Hazard Data

<b>Route(s) of Entry:</b>	Inhalation Skin Ingestion Eyes
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**Health Hazards (Acute and Chronic):** ACUTE: Severely corrosive to respiratory/digestive tracts. Corrosive to eyes; may cause permanent eye damage. Skin – causes severe burns which may not be immediately apparent. Fluoride ion penetrates deep tissues and even bone. CHRONIC: Intake or more than 6mg of fluorine per day may result in fluorosis. Hypocalcemia and hypomagnesemia can occur from absorption into blood.

**Signs and Symptoms of Exposure:** Standard signs and symptoms of burns.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing skin disorders or eye problems or impaired kidney or respiratory function.

**Emergency and First Aid Procedures:**  
**INGESTION:** DO NOT induce vomiting.  
**SKIN:** Wash with copious amounts of water to remove acid. Immediately cover burn with a 50:50 water/magnesium sulfate paste or a 2½% Calcium gluconate paste.  
**EYES:** Use eyewash to rinse eyes for 15 minutes. Get medical attention as soon as possible for all exposures.

## 7. Precautions for Safe Handling and Use

### Steps to Be Taken in Case Material is Released or Spilled:

Only very small amounts are generally used in dentistry. Position high speed suction tip several inches from area of hydrofluoric acid application to remove acid fumes. For larger spills, apply dry Magnesium Sulfate to spill. Follow with inert absorbent material and add slaked lime. Containerize in plastic materials and save for disposal.

### Waste Disposal Method:

Neutralized slurry can be scraped up for disposal. Dispose of in accord with all applicable regulations.

### Precautions to be Taken Handling and Storing:

Store in a cool place away from heat, sparks and flame. Do not wash down drain. Protect from physical damage. Do not store in glass or metal containers.

### Other Precautions:

**KEEP OUT OF REACH OF CHILDREN. AVOID ALL PHYSICAL CONTACT WITH THIS PRODUCT. VERY CORROSIVE TO METALS, GLASS, AND TISSUE.**

## 8. Control Measures For Use in Dental Office:

<b>Respiratory Protection (Specify Type):</b>	Face Masks
<b>Ventilation – Local Exhaust:</b>	Adequate ventilation to maintain less than 3ppm
<b>Mechanical (General):</b>	N/A
<b>Protective Gloves:</b>	Required
<b>Eye Protection:</b>	Face shield or safety goggles
<b>Other Protective Clothing or equipment:</b>	Binocular eyewash station should be available
<b>Work/Hygienic Practices:</b>	Do not allow smoking or food consumption while handling.

**Legal Disclaimer:** The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from the handling or from contact with the above product.

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