

# Calcium Hydroxide Products

## Material Safety Data Sheet

<b>Trade Name:</b> <a href="#">Pulpdent Pulp Capping Paste</a> <a href="#">Pulpdent Cavity Liner</a> <a href="#">Pulpdent TempCanal</a> <a href="#">Pulpdent Multi-Cal</a> <a href="#">Calcium Hydroxide Powder</a>	<b>Code:</b> PSYK, PSY PCL PTCK, PTC MULTI, MULTI-3 CH4, CH16
<b>Description:</b> Calcium hydroxide preparation	
<b>Product Use:</b> Dental material	

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<b><u>SECTION I</u></b>	
<b>Pulpdent Corporation</b> 80 Oakland Street Watertown, MA 02471-0780 USA	<b>Phone Numbers:</b> 24 Hr. Emergency: 1-800-535-5053 Customer Service: 1-800-343-4342/1-617-926-6666

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<b><u>SECTION II - HAZARDOUS INGREDIENTS</u></b>		
<b>Ingredients</b>	<b>CAS RN</b>	<b>PEL/TLV</b>
Calcium Hydroxide	1305-62-0	5 mg/m <sup>3</sup>
<b>DOT HAZARD CLASSIFICATION:</b> Not regulated		
<b>WHMIS CLASSIFICATION:</b> E - Corrosive material		
<b>NFPA HMIS RATING:</b> HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 1		

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<b><u>SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS</u></b>	
Boiling point: Decomposes	Specific Gravity: unknown
Vapor Pressure: unknown	Melting Point: 580°C
Vapor Density: unknown	Evaporation Rate: unknown
Solubility in water: Slight	Odor Threshold: n/a
Odor: Odorless	Appearance: White liquid, paste or powder

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<b><u>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</u></b>	
<b>Flash Point:</b> n/a	
<b>Hazardous Combustion Products:</b> Caustic fumes of calcium oxide form when heated to decomposition.	
<b>Extinguishing Media:</b> Use any means suitable for extinguishing surrounding fire.	
<b>Special Fire Fighting Procedures:</b> Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.	
<b>Unusual Fire and Exposure Hazards:</b> None.	
<b>Flammable limits:</b> n/a LEL UEL	

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<b><u>SECTION V - REACTIVITY DATA</u></b>	
<b>Stability:</b> Stable under normal conditions.	
<b>Conditions to avoid:</b> None.	
<b>Incompatibility:</b> Material reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus. As a strong alkali, it is incompatible with acids.	
<b>Hazardous Decomposition Products:</b> Caustic fumes of calcium oxide form when	

heated to decomposition.

**Hazardous Polymerization:** Will not occur.

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### **SECTION VI - HEALTH HAZARD DATA**

**Summary of Acute Hazards:** Minimal health hazard in these quantities of liquid and paste form. However, in large amounts and/or with prolonged exposure, this product is corrosive and may cause irritation and burns to mucous membranes, eyes, gastrointestinal tract, respiratory tract and skin. In addition, the powder form presents an inhalation hazard.

#### **Route of Exposure**

Inhalation:

Eye Contact:

Skin Absorption:

Skin Contact:

Ingestion:

#### **Signs & Symptoms**

Powder form may cause irritation of mucous membranes and upper respiratory tract.

Paste and liquid preparations cause no symptoms.

Corrosive. May produce irritation and pain.

May induce ulceration of the corneal epithelium.

n/a

Corrosive. May cause burns and blistering, depending on duration of contact.

Gastric irritant. Ingestion may be followed by pain, vomiting, diarrhea, and collapse.

**Summary of Chronic Hazards:** Narrowing of the esophagus may occur weeks to years after ingestion, making swallowing difficult.

Carcinogenicity:

Not known to be a carcinogen.

Teratogenicity:

None known.

Mutagenicity:

None known.

Reproductive Toxicity:

None known.

**Special Health Effects:** Persons with pre-existing skin conditions may be more susceptible to the effects of this substance.

#### **Emergency First Aid Procedures:**

**Inhalation:** Remove person to fresh air. Get medical attention for any breathing difficulty.

**Eye contact:** Wash eyes with plenty of water for at least 15 minutes lifting lids occasionally. Get immediate medical attention .

**Ingestion:** If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water or milk. Call a physician immediately. Never give anything by mouth to an unconscious person.

**Skin contact:** Remove any contaminated clothing. Wipe off excess from skin. Wash skin with plenty of tepid water. Get prompt medical attention if irritation becomes apparent.

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

**Handling and Storage Precautions:** Keep in tightly closed container; store in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances.

**Steps to Be Taken if Material is Released or Spilled:** Wear gloves and safety goggles. For powder spills, wear dust mask; pick up spilled material without dispersing powder into air. For paste and liquid spills, wipe up or absorb with paper towel. Wash area of spill with water-saturated paper towels or cloths. Place spilled material and absorbent towels in container for disposal.

**Waste Disposal Method:** Follow all government regulations.

**Other Precautions:** Wash hands after use. Spills may result in slippery surfaces.

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### **SECTION VIII - CONTROL MEASURES**

**Respiratory Protection:** When using powdered calcium hydroxide under normal conditions of dental practice, a surgical mask provides adequate respiratory protection. For larger quantities, where the TLV may be exceeded, an OSHA-approved dust/mist respirator is recommended. When using the paste and liquid preparations, the usual surgical mask worn by dental staff is adequate under all circumstances of normal use.

**Ventilation:** No special ventilation required other than that necessary to keep airborne concentrations of calcium hydroxide powder below the TLV.

**Protective Gloves:** Impervious gloves are recommended.

**Eye Protection:** Chemical safety goggles are recommended.

**Other Protective Clothing or Equipment:** Emergency eye wash fountain should be available. Wear lab coat, long sleeves and apron to prevent skin contact. Use rubber dam around tooth to be treated. Mask all surrounding tissue.

**Work/Hygienic Practices:** Wash hands after use; wash contaminated safety equipment before re-use. Persons regularly using large quantities of the powder form should not wear contact lenses.

*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.*

### **Order Pulpdent Products Through Your Dental Dealer**

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