

MATERIAL SAFETY DATA SHEET: CALCIUM HYDROXIDE PRODUCTS

IDENTITY:	<i>Trade Name</i>	<i>Code:</i>
	Cavity Liner	PCL
	Multi-Cal	MULTI, MULTI-3
	Pulpdent Paste	PSYK, PSY, PSYN
	TempCanal	PTCK, PTC
	Calcium Hydroxide Powder	CH4, CH16

Chemical Description: Calcium hydroxide preparation

Product Use: Dental material

SECTION I

Pulpdent Corporation
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Watertown, MA 02472 USA
Date Prepared: September 1, 2007

Phone Numbers:
24 Hour Emergency: (800) 535-5053
Customer Service: (800) 343-4342 / 617-926-6666

SECTION II - HAZARDOUS INGREDIENTS

<i>Ingredient</i>	<i>CAS RN</i>	<i>PEL/TLV</i>
Calcium Hydroxide	1305-62-0	5 mg/m ³

DOT HAZARD CLASSIFICATION: Not regulated

WHMIS CLASSIFICATION: E - Corrosive material

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

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Decomposes	Melting Point: 580°C
Solubility in water: Negligible	Odor Threshold: Not available
Appearance: White liquid, paste or powder	Odor: Odorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not available Flammable limits: Not available
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Special Fire Fighting Procedures: 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.
Hazardous combustion products: Caustic fumes of calcium oxide form when heated to decomposition.
Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability: Stable under normal conditions. Conditions to avoid: Excessive heat.
Incompatibility: Material reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus. As a strong alkali, it is incompatible with acids.
Hazardous Decomposition Products: Caustic fumes of calcium oxide when heated to decomposition.
Hazardous Polymerization: Will not occur. Conditions to avoid: None.

SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Minimal health hazard in the quantity of liquid and paste contained in these products and under normal conditions of use. However, in large amounts and/or with prolonged exposure, calcium hydroxide is corrosive and may cause irritation and burns to mucous membranes, eyes, gastrointestinal tract, respiratory tract and skin. Calcium hydroxide in its powdered form presents an inhalation hazard.

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Route of Exposure

Signs and Symptoms

Inhalation	Calcium hydroxide powder may cause irritation of mucous membranes and upper respiratory tract. Paste and liquid preparations cause no symptoms.
Eye Contact	Corrosive. May produce irritation, pain, ulceration of the cornea.
Skin Absorption	Not applicable
Skin Contact	Corrosive. May cause burns, blistering, depending on duration of contact.
Ingestion	Gastric irritant. May cause pain, vomiting, diarrhea, and collapse.

Summary of Chronic Hazards: Narrowing of the esophagus may occur weeks to years after ingestion.

Carcinogenicity Not considered a carcinogen.

Reproductive Toxicity, Mutagenicity, Teratogenicity: None known.

Special Health Effects Persons with pre-existing skin conditions may be more susceptible to irritation.

Emergency First Aid Procedures

Inhalation	Move to fresh air. Seek medical attention if breathing is labored.
Eye contact	Wash with running water for 15+ minutes. Seek immediate medical care.
Ingestion	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water/milk, but only if person is conscious. Call physician immediately.
Skin contact	Remove contaminated clothing. Wipe off excess and wash skin with plenty of tepid water. Seek medical attention if irritation persists.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling and Storage Precautions: Keep tightly closed in original container; store in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Paste products: remove applicator tip, add a drop of water to cap and recap syringe immediately after use. Do not leave applicator tip on syringe.

Release or Spill: Wear gloves, safety goggles. Powder spills: wear dust mask; pick up spilled material without dispersing powder into air. Paste and liquid spills: wipe up with paper towels. Wash area of spill with water-saturated paper towels/cloths. Place material and towels in container for disposal.

Waste Disposal Method: Follow government regulations.

Other Precautions: Spills may result in slippery surfaces.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: Not necessary under normal conditions of dental practice. If handling large quantities of calcium hydroxide powder, where the TLV may be exceeded, an OSHA-approved dust/mist respirator is recommended.

Ventilation: No special ventilation necessary if level of calcium hydroxide powder is below the TLV.

Protective Gloves: Chemically impervious gloves. **Eye Protection:** Chemical safety goggles.

Other Protective Clothing or Equipment: Emergency eye wash fountain. 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.