


Safety Data Sheet**Trade Names:****Calcium Hydroxide Powder USP**

1.0 Commercial Product Name and Supplier				
1.1	Commercial product name / designation	Calcium Hydroxide Powder, USP		
1.2	Application / Use	Chemical component		
1.3	Manufacturer Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: Pulpdent@pulpdent.com		
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)		
2.0 Hazards Identification				
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	<u>Hazard Class</u> Skin irritation STOT SE Eye irritation	<u>Hazard Category</u> 2 2 2	<u>Hazard Statement</u> H315 H335 H319
2.1.2	Classification according to Directive 67/548/EEC	Irritant (Xi); R 36 / 37 / 38 (See SECTION 16 for full text of risk phrases)		
2.1.3	Classification according to WHMIS	D2: Irritant		
2.2	GHS Label Elements			
	Hazard Pictograms			
				
	Signal Word: WARNING			
	Restricted to use by dental professional only.			
	Hazard Statements			
	H319: Eye irritation. 2. May cause eye irritation.			
	H315: Skin irritation. 2. May cause skin irritation.			
	H335: STOT SE. 3. May cause respiratory irritation.			
	Precautionary Statements			
	P280: Wear protective gloves and eye protection			
	P305+P351: If in eyes, rinse cautiously with water for several minutes.			
	P337+P313: If eye irritation persists, get medical advice/attention.			
	P302+P352: If on skin, wash with plenty of soap and water.			
	P261: Avoid breathing dust.			
3.0 Composition				
3.1	Chemical characterization of the preparation	Calcium Hydroxide Powder USP		
3.2	Hazardous ingredients			
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC
	1305-62-0	Calcium Hydroxide	100%	Irritant (Xi) R 36 / 37 / 38
				Classification per Regulation (EC) No.1272/2008 (CLP).
				Skin irritation; 2 STOT SE; 2 Eye irritation, 2

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4.0 First Aid Measures		
4.1	Special Instructions	Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty. Calcium hydroxide powder presents an inhalation hazard if allowed to disperse, and is irritating to mucous membranes, eyes, skin, gastrointestinal tract or respiratory tract with prolonged exposure.
4.2	Eye Contact	Keep eyelids apart; flush with running water for 15+ minutes. Get medical attention.
4.3	Skin Contact	Remove any contaminated clothing. Wipe off excess from skin. Immediately flush skin water. Get medical attention if irritation persists.
4.4	Ingestion	Rinse mouth with water. Do not induce vomiting. Give large amounts of water to dilute. Get immediate medical attention for ingestion of large amount. Never give anything by mouth to an unconscious person.
4.5	Inhalation	Move to fresh air. If necessary, administer artificial respiration and seek medical attention.
4.6	Precautions for first responders	Wear safety glasses and gloves to prevent contact. Wear a dust mask if the powder form has dispersed.
4.7	Information for physician	
	Symptoms	Irritation, pain or redness in eyes, on skin, on mucous membranes.
	Hazards	May be irritating to eyes, skin, respiratory system, gastrointestinal tract or mucous membranes especially with prolonged exposure There is a risk of serious damage to eyes. Calcium hydroxide powder presents an inhalation hazard if allowed to disperse.
	Treatment	Same as First Aid above.
5.0 Fire Fighting Measures		
5.1	Suitable extinguishing media	Not a fire hazard. Extinguish fire with agent suitable for surrounding fire.
5.2	Extinguishing media to avoid	None
5.3	Special exposure hazards in a fire	None
5.4	Special protective equipment for fire-fighters	Self-contained breathing apparatus
6.0 Accidental Release Measures		
6.1	Personal precautions.	Wear dust mask, gloves, lab coat and chemical splash goggles.
6.2	Environmental precautions	None
6.3	Method for clean up	Pick up spilled material without dispersing powder into air.
7.0 Handling and Storage		
7.1	Handling	Wear gloves, safety glasses; wash hands after use. Avoid unnecessary exposure. Follow good hygiene practices.
7.2	Storage	Keep tightly capped in original container. Store at cool room temperature. Avoid extremes of temperature (>27°C/80°F, <5°C/40°F), moisture and acids.
7.3	Specific uses	Various

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8.0 Exposure Controls / Personal Protection		
8.1	Exposure limit values	PEL / TLV 5 mg/m ³
8.2	Exposure controls	
8.2.1	Occupational exposure controls	Wear safety glasses, lab coat and gloves. No other equipment required under normal conditions of use of this product in the quantity provided.
8.2.1.1	Respiratory protection	For exposure > PEL/TLV, OSHA-approved dust mask.
8.2.1.2	Hand protection	Protective gloves
8.2.1.3	Eye protection	Safety glasses
8.2.1.4	Skin protection	Good personal hygiene and safety practices; wearing a lab coat.
8.2.1.5	Other controls	Emergency eye wash fountain should be close by. Wash hands after use.
8.2.2	Environmental exposure controls	Avoid release into environment; calcium hydroxide may cause pH variation.
9.0 Physical and Chemical Properties		
9.1	Characteristics	
9.1.1	Appearance / Color / Physical state	Fine, white powder
9.1.2	Odor	Odorless
9.2	Important health, safety and environmental information	
9.2.1	pH	pH > 12
9.2.2	Boiling point	Decomposes
9.2.3	Flash point	Not combustible
9.2.4	Flammability (solid, gas)	Not combustible
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not determined
9.2.7	Vapor pressure	Not applicable
9.2.8	Specific gravity	Not determined
9.2.9	Solubility in water	Slight
9.2.10	Partition coefficient	Not determined
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	Not determined
9.2.13	Evaporation rate	Not determined
10.0 Stability and reactivity		
10.1	Conditions to avoid	Extremes of temperature (>27°C/80°F, <5°C/40°F), dampness.
10.2	Materials to avoid	Calcium hydroxide reacts violently with maleic anhydride, nitro-ethane, nitro-methane, nitro-paraffin, nitro-propane, phosphorus. As a strong alkali, it is incompatible with acids.
10.3	Hazardous decomposition products	Caustic fumes of calcium oxide when heated to decomposition.

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10.4	Further information	Stable under normal conditions.
11.0	Toxicological information	
11.1	Acute toxicity	Not toxic. Minimal health hazard under normal conditions of use.
11.2	Irritation and corrosiveness	Minimal health hazard under normal conditions of use. Prolonged exposure may cause irritation of mucous membranes, eyes, skin, gastrointestinal tract or respiratory tract. Calcium hydroxide powder may present an inhalation hazard.
11.3	Sensitization	Not applicable.
11.4	Sub-acute, sub-chronic and prolonged toxicity	Narrowing of the esophagus may occur weeks to years after ingestion of large quantities, making swallowing difficult. Persons with pre-existing skin conditions may be more susceptible to the irritating effects of calcium hydroxide
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	Not considered a carcinogen, mutagen or teratogen. Not toxic to the reproductive system.
11.6	Empirical data	Not available
11.7	Clinical Experience	Not applicable
12.0	Ecological Information	
12.1	Ecotoxicity	Not considered detrimental to water or soil. Avoid release into environment as calcium hydroxide may cause pH variation. Follow government regulations.
13.0	Disposal Considerations	
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
14.0	Transport Information	
14.1	Restrictions	None. Not regulated.
14.2	UN Number	None
14.3	Technical name	Not applicable
14.4	Packing group	Not applicable
	IATA class	Not applicable
15.0	Regulatory Information	
15.1	EU Regulations	Calcium Hydroxide Powder USP is not a medical device. It is a USP grade chemical.
15.2	US FDA	Calcium Hydroxide Powder USP is not a medical device. It is a USP grade chemical.
15.3	Health Canada	Calcium Hydroxide Powder USP is not a medical device. It is a USP grade chemical.

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16.0 Other information		
16.1	List of relevant R phrases	R36/38: Irritating to eyes and skin. R36/37/38: Irritating to eyes, respiratory system and skin
16.2	Hazard Statements	H319: Eye irritation. 2. May cause eye irritation. H315: Skin irritation. 2. May cause skin irritation. H335: STOT SE. 3. May cause respiratory irritation
16.3	Precautionary Statements	P280: Wear protective gloves and eye protection P305+P351: If in eyes, rinse cautiously with water for several minutes. P337+P313: If eye irritation persists, get medical advice/attention. P302+P352: If on skin, wash with plenty of soap and water. P261: Avoid breathing dust.
16.4	Restrictions on use	None
16.5	Further information	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.
16.6	Sources of key data	National Institute for Occupational Safety (NIOSH) Occupational Safety and Health Administration (OSHA) Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency
16.7	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format, Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.