Trade Name: *FORENDO™ PASTE*, Calcium Hydroxide with Iodoform

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	FORENDO™ PASTE	•	
1.2	Application / Use	Dental material for use by	dental professionals.	
1.2.2	SIC	851 Human health activity		
1.2.3	Use Category	55		
1.3	Manufacturer			
	Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-666 Email: Pulpdent@pulpdent		262
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour	USA)	
1.5	Authorized European Representative	Advena Ltd. Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom		
2.0	Hazards Identification			
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Hazard Class	Hazard Category	Hazard Statement
		Skin irritation	2	H315
		Eye irritation	2	H319
		STOT SE Respiratory tract irritant	3	H335
		Acute toxicity (oral)	4	H302
		Acute toxicity (dermal)	4	H312
		Harmful if inhaled	4	H332

Xi (Irritant); R41, R20/21/22, R36/37/38 (See SECTION 16 for full text of risk phrases)

2.2 GHS Label Elements

Hazard Pictogram



2.1.2

Signal Word: Warning

Restricted to use by dental professional only

Classification according to Directive 67/548/EEC

Hazard Statements:

H315: Causes skin irritation. Category 2

H319: Causes serious eye irritation. Category 2.

H335: STOT SE Respiratory tract irritant. Category 3.

H302: Harmful if swallowed. Category 4

H312: Harmful in contact with skin. Category 4

H332: Harmful if inhaled. Category 4

Precautionary Statements

P261: Avoid breathing vapors.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves, lab coat and eye/face protection.

Trade Name: *FORENDO™ PASTE*, Calcium Hydroxide with Iodoform

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P301+P312: If swallowed, immediately call a Poison Control Center or doctor/physician.

P330: Rinse mouth.

P302+P352: If on skin, wash with plenty of soap and water.

P363: Wash contaminated clothing before reuse.

P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

	P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.					
3.0	Composition					
3.1	Chemical characterization of the preparation			Calcium hydroxide and le	odoform in a silicone-based paste.	
3.2	Hazardous ingredients					
	CAS Number	Name of the Ingredient	Concentratio	n Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP)	
	1305-62-0	Calcium Hydroxide	20-30 %	Xi (Irritant); R20/21/22, R36/37/38	Skin irritation, 2, H315 Eye irritation, 2, H319	
	75-47-8	lodoform	30-40 %	Xn (Harmful); R41, R20/21/22	STOT SE Respiratory tract irritant, 4, H335 Acute toxicity (oral), 4, H302 Acute toxicity (dermal), 4, H312 Harmful if inhaled, 4, H332	
4.0	First Aid Measures					
4.1	Special Instructions		i !	Calcium hydroxide is a corrosive. lodoform is considered harmful by inhalation, ingestion or contact with eyes or skin. However, when combined in a silicone-based paste, as in this product, they present a moderate hazard of irritation with prolonged exposure. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.		
4.2	Eye Contact			Move 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 with running water. Get medical attention if irritation persists.		
4.4	Ingestion			Rinse mouth with water. Do not induce vomiting unless directed by medica personnel. Give large amounts of water to dilute. Get immediate medica attention for ingestion of large amount. Never give anything by mouth to ar unconscious person.		
4.5	Inhalation			Move to fresh air. If necessary, administer artificial respiration and/or oxygen and seek immediate medical attention.		
4.6	Precautions for first responders		lers	Wear safety glasses and gloves to prevent contact.		
4.7	Information	for physician				
	Symptoms	Symptoms		Irritation, pain or redness in eyes, on skin, on mucous membranes.		
	Hazards		I		kin, respiratory system, gastrointestinal tract or ause burns, especially with prolonged exposure. age to eyes.	
	Treatment		;	Same as First Aid above.		

Trade Name: $\textit{FORENDO}^{\intercal}$ PASTE, Calcium Hydroxide with lodoform

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	Toxic gases and vapors may be released under fire conditions.	
5.4	Special protective equipment for fire-fighters	Self-contained breathing apparatus; full, protective clothing.	
6.0	Accidental Release Measures		
6.1	Personal precautions.	Wear chemical splash goggles, impervious gloves, lab coat with long sleeves and shoe covers.	
6.2	Environmental precautions	Avoid release into the environment.	
6.3	Method for clean up	Scrape / wipe up with damp paper towels. Wash spill area with detergent and water. Place spill and absorbent towels in covered container for disposal.	
7.0	Handling and Storage		
7.1	Handling	For use by dental professionals only. Wear gloves, safety glasses; wash hands after use. Avoid unnecessary exposure. Follow good hygiene practices.	
7.2	Storage	Remove applicator tip immediately after use. Keep tightly capped in original container. Store at cool room temperature (<25°C) in a well-ventilated area. Avoid extremes of temperature (>27°C/80°F, <5°C/40°F) and acids.	
7.3	Specific uses	Dental preparation	
8.0	Exposure Controls / Personal Protection		
8.1	Exposure limit values	Calcium hydroxide powder: PEL/TLV 5 mg/m³ lodoform: 0.6 ppm (10 mg/m³	
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	Good general ventilation is sufficient to control any airborne vapors.	
8.2.1.2	Hand protection	No special requirements other than the usual surgical gloves.	
8.2.1.3	Eye protection	No special requirements other than the usual 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. Wash hands after use.	
8.2.2	Environmental exposure controls	Avoid release into environment as calcium hydroxide may cause pH variation and iodoform may be harmful.	
9.0	Physical and Chemical Properties		
9.1	Characteristics		
9.1.1	Appearance /Color / Physical state	Smooth, yellow paste	
9.1.2	Odor	Characteristic, unpleasant, iodine odor	
9.2	Important health, safety and environmental information		
9.2.1	рН	pH > 12	

Trade Name: *FORENDO™ PASTE*, Calcium Hydroxide with Iodoform

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 determined 9.2.8 Specific gravity Not determined	
 9.2.5 Explosive properties 9.2.6 Oxidizing properties 9.2.7 Vapor pressure Not applicable Not determined Not determined 	
9.2.6 Oxidizing properties Not determined 9.2.7 Vapor pressure Not determined	
9.2.7 Vapor pressure Not determined	
• •	
9.2.8 Specific gravity Not determined	
5.2.5 Specific gravity	
9.2.9 Solubility in water Nil	
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 Open flame, other ignition sources, temperature ov	ver 27°C, intense light.
10.2 Materials to avoid Strong oxidizers, acetone.	
10.3 Hazardous decomposition products Toxic iodine vapors, caustic fumes of calcium oxi carbon dioxide, hydrogen iodide.	de, carbon monoxide,
10.4 Further information Stable under normal conditions.	
11.0 Toxicological information	
11.1 Acute toxicity lodoform, Oral rat LD ₅₀ : 355 mg/Kg Calcium hydroxide, Oral Rat LD ₅₀ : 7340 mg/Kg	
11.2 Irritation and corrosiveness Forendo presents a minimal health hazard under dental practice. Prolonged exposure may cau mucous membranes, eyes, skin, gastrointestinal dermatitis.	use burns/irritation of
11.3 Sensitization Not applicable.	
11.4 Sub-acute, sub-chronic and prolonged toxicity Chronic exposure may cause skin rash, headache severe cases. Persons with pre-existing skin consusceptible to the irritating effects of this material.	
11.5 Carcinogenicity, Mutagenicity, Reproductive Toxicity Not considered a carcinogen, mutagen, terator reproductive toxicity.	ogen or a cause of
11.6 Empirical data Not available	
11.7 Clinical Experience Similar calcium hydroxide/iodoform preparations h and used safely and effectively by dental profession	
12.0 Ecological Information	
12.1 Ecotoxicity Avoid release into environment as calcium hydrovariation and iodoform may be harmful. Follow gov	

Trade Name: *FORENDO™ PASTE*, Calcium Hydroxide with Iodoform

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	Class IIa medical device under MDD 93/42/EEC.	
15.2	US FDA	Class II medical device	
15.3	Health Canada	Class III medical device	
16.0	Other information		
16.1 16.2	List of relevant R phrases Hazard Statements	R41: Risk of serious damage to eyes R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. H315: Causes skin irritation. Category 2	
		H319: Causes serious eye irritation. Category 2. H335: STOT SE Respiratory tract irritant. Category 3. H302: Harmful if swallowed. Category 4 H312: Harmful in contact with skin. Category 4 H332: Harmful if inhaled. Category 4	
16.3	Precautionary Statements	P261: Avoid breathing vapors. P264: Wash hands thoroughly after handling. P280: Wear protective gloves, lab coat and eye/face protection. P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P301+P312: If swallowed, immediately call Poison Control Center or physician. P330: Rinse mouth. P302+P352: If on skin, wash with plenty of soap and water. P363: Wash contaminated clothing before reuse. P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.	
16.4	Restrictions on use	Calcium hydroxide/iodoform preparations, like Forendo, are to be us only by dental professionals who have been trained in their use.	

Revision Date: May 28, 2019

Pulpdent Corporation Revision Date: May 28, 2019

Safety Data Sheet

Trade Name: *FORENDO™ PASTE*, Calcium Hydroxide with Iodoform

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.