# Pulpdent Corporation Safety Data Sheet

Trade Name: **PULPDENT LIME-LITE™ ENHANCED** 

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Lime-Lite™ Enhance	ed Light-cured Cavity Li	ner
1.2	Application / Use	Dental material for us	e by dental professional o	only.
1.2.2	SIC	851 Human health ac	tivity	·
1.2.3	Use Category	55		
1.3	Manufacturer <b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780  Watertown, MA 02472 USA	Telephone: 1 617 926 Fax: 1 617 926 Email: Pulpdent@pulp	5-6262	
1.4	Emergency Telephone Number	1-800-535-5053 (24 H	lour / USA)	
1.5	Authorized European Representative	Advena Limited Tower Business Cent Tower Street, Swatar, BKR 4013 Ma		
	UK Responsible Person	Advena Limited Pure Offices, Plato Cl Warwick, CV34 6WE		
2.0	Hazards Identification			
2.1	Classification	Irritant.		
2.1.1	Classification according to Regulation (EC) No 1272/2008 [CLP]	Hazard Class Eye irritation STOT SE Skin irritation Skin sensitization	Hazard Category 2 3 2 1	Hazard Statemen H319 H335 H315 H317
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Irritant; X	i; R 36/37/38 - 43	
2.2	GHS Label Elements			
	Hazard Pictograms			
	<b>(1)</b>			
	Signal Word: WARNING Restricted to use by dental professional only. Hazard Statements			

H319: Eye irritation. 2. May cause eye irritation.

H335: STOT SE. 3. May cause respiratory irritation.

H315: Skin irritation. 2. May cause skin irritation.

H317: Sensitization. 1. May cause an allergic skin reaction.

**Precautionary Statements** 

P261: Avoid breathing vapor.

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.

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P333+P313: If irritation or rash occurs, get medical advice/attention.

P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.

	P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.					
3.0	Composition	Composition				
3.1	Chemical characterization of the preparation: Light-cured, glass-filled resins.					
3.2	Hazardous ingredients					
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP)	
	Proprietary mixture	Blend of diurethane and other methacrylate resins	35.0%	Irritant; Xi R 3637//38 - 43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317	
	112945-52-5	Silica, amorphous	4.8%	Irritant; Xi, R 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
4.0	First Aid Measur	es				
4.1	General Information	on	contact with resir		em, skin. Prolonged or repeated n. Show this safety data sheet to n case of uncertainty.	
4.2	Inhalation			air. If necessary, adm eek medical attention.	inister oxygen and/or artificial	
4.3	Skin Contact		Take off contami for 15 minutes.	nated clothing. Wash skin	thoroughly with soap and water	
4.4	Eye Contact		Keep eyelids ap medical attention		ng water for 15+ minutes. Get	
4.5	Ingestion			e irritating to mucous men	omiting. Get immediate medical nbranes. Never give anything by	
4.6	Precautions for first responders Ventilate the area. Wear eye and skin protection.		ection.			
4.7	Information for physicians					
	Symptoms		Irritation or redne	ess in eyes, throat or on sk	kin.	
	Hazards		May be irritatin sensitization by s		system and skin. May cause	
	Treatment		As above under l	First Aid.		
5.0	Fire Fighting Me	asures				
5.1	Suitable extinguishing media		Carbon dioxide, dry chemical, alcohol foam, or water fog. Water spray may be used to keep fire exposed containers cool.			
5.2	Extinguishing media to avoid		Do not use direct water stream			
5.3	Special exposure	hazards in a fire	Heat may cause polymerization with rapid release of energy.			
5.4	Special protective	Special protective equipment for fire-fighters		A self-contained breathing apparatus should be worn by firefighters.		
6.0	Accidental Relea	ise Measures				
6.1	Personal precauti	ons.	Ventilate area. W	/ear safety glasses, gloves	s and lab coat.	

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Absorb or wipe up spill with paper towels or cloths. Collect for disposal in a covered container. Wash area of spill with alcohol or soap and water.  7.0 Handling and Storage  7.1 Handling  For use only by dental professionals. Follow good hygiene practices Remove applicator tip from syringe and recap immediately after use. Keep light-oured materials shaded from intense light sources.  7.2 Storage  Keep tightly capped. Store in original container at cool room temperature (<25°C). Avoid direct light, sources of ignition, extremes of temperature (>27°C/80°F, <5°C/40°F). Shelf life for unopened product is two years from date of manufacture, provided that the material has been stored properly.  7.3 Specific uses  Dental material  8.0 Exposure Controls / Personal Protection  8.1 Exposure limit values  PEL: Not established. TLV: Not established.  8.2 Exposure controls  8.3.1 Occupational exposure controls  No special equipment required under normal conditions of use.  8.2.1.1 Respiratory protection  Good general ventilation is sufficient to control any airborne vapors.  8.2.1.2 Hand protection  Usual surgical gloves will limit contact with uncured material.  8.2.1.3 Eye protection  Usual safety glasses.  8.2.1.4 Skin protection  Good personal hygiene and safety practices; lab coat.  Emergency eye wash fountain should be available. Wash hands after use.	6.2	Environmental precautions	Contain spilled material. Follow all government regulations.
Handling and Storage	6.3	Method for clean up	Absorb or wipe up spill with paper towels or cloths. Collect for disposal in a
For use only by dental professionals. Follow good hygiene practices Remove applicator tip from syringe and recap immediately after use. Keep lightly capped. Storage Remove applicator tip from syringe and recap immediately after use. Keep lightly capped. Storage Report Storage	7.0	Handling and Ct.	covered container. Wash area of spill with alcohol or soap and water.
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C25°C) Avoid direct light, sources of ignition, extremes of temperature, provided that the material has been stored properly.    Resposure Controls / Personal Protection	7.1	Handling	Remove applicator tip from syringe and recap immediately after use. Keep
Exposure Controls / Personal Protection  8.1 Exposure limit values PEL: Not established. TLV: Not established.  8.2 Exposure controls  8.2.1 Occupational exposure controls No special equipment required under normal conditions of use.  8.2.1.1 Respiratory protection Good general ventilation is sufficient to control any airborne vapors.  8.2.1.2 Hand protection Usual surgical gloves will limit contact with uncured material.  8.2.1.3 Eye protection Usual safety glasses.  8.2.1.4 Skin protection Good personal hygiene and safety practices; lab coat.  8.2.1.5 Other controls Emergency eye wash fountain should be available. Wash hands after use.  8.2.2 Environmental exposure controls Cure material before disposing. To the best of our knowledge, cured material is inert. Follow all government regulations.  9.0 Physical and Chemical Properties  9.1 Characteristics  9.1.1 Appearance /Color / Physical state Dentin-shade (A2) paste  9.1.2 Odor Faint, characteristic  9.2 Important health, safety and environmental information  9.2.1 pH Not determined  9.2.2 Boiling point Not determined  9.2.3 Flash point Not determined  9.2.4 Flammability (solid, gas) Not applicable  9.2.5 Explosive properties Not applicable  9.2.6 Oxidizing properties Not determined  9.2.7 Vapor pressure < 1 mm Hg / 133 Pa / Id: B  9.2.8 Specific gravity 1.700 ± 0.02  Solubility in water Nil	7.2	Storage	Keep tightly capped. Store in original container at cool room temperature (<25°C). Avoid direct light, sources of ignition, extremes of temperature (>27°C/80°F, <5°C/40°F). Shelf life for unopened product is two years from date of manufacture, provided that the material has been stored properly.
Exposure limit values  Exposure controls  8.2 Exposure controls  8.2.1 Occupational exposure controls  8.2.1.1 Respiratory protection  8.2.1.2 Hand protection  8.2.1.2 Hand protection  8.2.1.3 Eye protection  8.2.1.4 Skin protection  8.2.1.5 Other controls  8.2.2.5 Environmental exposure controls  8.2.1.5 Other controls  8.2.1.6 Environmental exposure controls  8.2.1.7 Ephysical and Chemical Properties  9.1 Characteristics  9.1 Appearance /Color / Physical state  9.1 Physical health, safety and environmental information  9.2 Important health, safety and environmental information  9.2 Boiling point  9.2 Not determined  9.2.3 Flash point  Not determined  9.2.4 Flammability (solid, gas)  Not applicable  9.2.5 Explosive properties  Not determined  9.2.6 Oxidizing properties  Not determined  9.2.7 Vapor pressure  1.700 ± 0.02  Solubility in water  Nil	7.3	Specific uses	Dental material
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9.2.2 Boiling point Not determined  9.2.3 Flash point Not determined  9.2.4 Flammability (solid, gas) Not applicable  9.2.5 Explosive properties Not applicable  9.2.6 Oxidizing properties Not determined  9.2.7 Vapor pressure <1 mm Hg / 133 Pa / Id: B  9.2.8 Specific gravity 1.700 ± 0.02  9.2.9 Solubility in water Nil	9.2	Important health, safety and environmental information	
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9.2.5 Explosive properties  9.2.6 Oxidizing properties  9.2.7 Vapor pressure  9.2.8 Specific gravity  9.2.9 Solubility in water  Not applicable  Not determined  1.700 ± 0.02  Nil	9.2.3	Flash point	Not determined
9.2.6 Oxidizing properties  9.2.7 Vapor pressure  9.2.8 Specific gravity  9.2.9 Solubility in water  Not determined  < 1 mm Hg / 133 Pa / Id: B  1.700 ± 0.02  Nil	9.2.4	Flammability (solid, gas)	Not applicable
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9.2.9 Solubility in water Nil	9.2.7	Vapor pressure	< 1 mm Hg / 133 Pa / Id: B
·	9.2.8	Specific gravity	$1.700 \pm 0.02$
9.2.10 Partition coefficient Not determined	9.2.9	Solubility in water	Nil
	9.2.10	Partition coefficient	Not determined

#### Pulpdent Corporation

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Trade Name: **PULPDENT LIME-LITE™ ENHANCED** 

9.2.11	Viscosity	Not determined	
9.2.12	Vapor density	>1	
9.2.13	Evaporation rate	Not determined	
10.0	Stability and reactivity		
10.1	Conditions to avoid	Temperature extremes (>27°C/80°F, <5°C/40°F), light.	
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.	
10.3	Hazardous decomposition products	Under fire conditions, with amounts greater than in this product, hazardous polymerization may occur with heat buildup, release of carbon monoxide, carbon dioxide, oxides of nitrogen.	
10.4	Further information	Polymerization will occur when light-cured material is exposed to direct light.	
11.0	Toxicological information		
11.1	Acute toxicity	Not toxic. Minimal health hazard in the quantities present in this product and under normal conditions of use.	
11.2	Irritation and corrosiveness	May be irritating to eyes, mucous membranes or skin on contact or with prolonged exposure.	
11.3	Sensitization	May be sensitizing. Prolonged or frequent skin contact may cause allergic skin reactions in some susceptible individuals.	
11.4	Sub-acute, sub-chronic and prolonged toxicity	Prolonged and/or frequent skin contact may cause allergic skin reactions in susceptible individuals. Prolonged exposure to large amounts of this material may cause eye and respiratory irritation.	
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known.	
11.6	Empirical data	None available.	
11.7	Clinical experience	Lime-Lite Enhanced is new to the market, but initial evaluations have been positive. There have been no reports of adverse events.	
12.0	Ecological Information		
12.1	Ecotoxicity	To the best of our knowledge, polymerized material is inert. No other information is available.	
13.0	Disposal Considerations		
13.1	Regulations	Polymerize before disposal. Follow all local and national government regulations in disposing material or contaminated packaging.	
14.0	Transport Information		
14.1	Restrictions	None. Not regulated by IATA.	
15.0	Regulatory Information		
15.1	US FDA	Class II medical device	

## **Safety Data Sheet**

Trade Name: **PULPDENT LIME-LITE™ ENHANCED** 

16.0	Other information			
16.1	List of relevant R phrases	R36/37/38: Irritating to eyes, respiratory system and skin. R43: Sensitizing by skin contact		
16.2	Hazard Statements	H319: Eye irritation. Hazard category 2. H335: Specific Target Organ Toxicity - Single exposure; hazard category. 3. Respiratory tract irritation. H315: Skin irritation. Hazard category 2. H317: Skin Sensitization. Hazard category 1.		
16.3	Precautionary Statements	P261: Avoid breathing vapor. 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. P333+P313: If irritation or rash occurs, get medical advice/attention. P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.		
16.4	Restrictions on use	Pulpdent products are to be sold to and used by dental professionals only.		
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) US 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.		

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