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.

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Kool-Dam Heatless I	Liquid Dam & Block Out F	Resin
1.2	Application / Use	Dental material for use by dental professional only.		
1.2.2	SIC	851 Human health ac	ctivity	
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 Email: Pulpdent@pul	6-6666, Fax: 617 926-626 pdent.com	2
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)		
1.5	Authorized European Representative	Advena Limited Tower Business Centre, 2nd Floor, Tower Street, Swatar, BKR 4013 Malta		
	UK Responsible Person	Advena Limited Pure Offices, Plato C Warwick, CV34 6WE		
2.0	Hazards Identification		<u> </u>	
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	<u>Hazard Statemen</u> H319 H335 H315 H317
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Irritant; Xi; R 36/3	37/38 - 43	
2.2	GHS Label Elements Hazard Pictograms			
	1			
	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 skir	on.		

Revision Date: March 3, 2022

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

Trade Name: **PULPDENT KOOL-DAM**

3.0	Composition					
3.1	Chemical chara	cterization of the preparation	on Aliphatic and cured, glass		acrylate Oligomer / Monomer in a light-	
3.2	Hazardous ingr	Hazardous ingredients				
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP)	
	Proprietary	Aliphatic and Polyurethane Dimethacrylate Oligomer / Monomer	55-65%	Xi (Irritant) R36/37/38, R43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317	
	112945-52-5	Amorphous silica	5 %	Xi (Irritant), R36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
4.0	First Aid Meas	ures				
4.1	General Inform	ation	respiratory syste Oligomer / Mono	m and skin on contact mer may cause sensiti	ditions of use. May be irritating to eyes, t. Prolonged or repeated contact with zation. Show this safety data sheet to n in case of uncertainty.	
4.2	Inhalation Move to fresh air. If necessary, administer oxygen / artificial respiration; see medical attention.					
4.3	Skin Contact		Take off contami 15 minutes.	nated clothing. Wash s	kin thoroughly with soap and water for	
4.4	Eye Contact Keep eyelids apart and flush with running water for 15+ minute attention.		ng water for 15+ minutes. Get medical			
4.5	Ingestion		Rinse mouth with water. Do not induce vomiting. Get immediate medical attention. May be irritating to mucous membranes. Never give anything by mouth to an unconscious person.			
4.6 4.7	Precautions for Information for	first responders physicians	Ventilate the area	a. Wear eye and skin pr	otection.	
	Symptoms		Irritation or redne	ss in eyes, throat or on	skin.	
	Hazards		May be irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.			
	Treatment		As above under First Aid.			
5.0	Fire Fighting M	Measures				
5.1	Suitable exting	uishing media		dry chemical, alcohol fo exposed containers co	am or water fog. Water spray may be ol.	
5.2	Extinguishing n	nedia to avoid	Do not use direct	water stream		
5.3	Special exposu	re hazards in a fire	Heat may cause	polymerization with rap	id release of energy.	
5.4	Special protecti	ve equipment for fire-	A self-contained	oreathing apparatus sh	ould be worn by fire fighting personnel.	

Trade Name: **PULPDENT KOOL-DAM**

6.0	Accidental Release Measures	
6.1	Personal precautions	Ventilate area. Wear safety glasses, gloves, and lab coat.
6.2	Environmental precautions	Contain spilled material. Follow all government regulations.
6.3	Method for clean up	Absorb or wipe up spill with suitable material (paper towels or cloths). Collect fo 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-cured materials shaded from intense light sources.
7.2	Storage	Store tightly capped 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	
8.2.1	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	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; 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	Follow all government regulations. Cure material before disposing.
9.0	Physical and Chemical Properties	
9.1	Characteristics	
9.1.1	Appearance /Color / Physical state	Light blue gel
9.1.2	Odor	Faint, characteristic
9.2	Important health, safety and environmental information	
9.2.1	рН	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

Revision Date: March 3, 2022

Trade Name: **PULPDENT KOOL-DAM**

14.1	Restrictions	None. Not regulated by IATA.
14.0	Transport Information	Name National Just ATA
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
13.0	Disposal Considerations	Fallery all level and mattered necessary of the Date of the Control of the Contro
12.1	Ecotoxicity	To the best of our knowledge, polymerized material is inert. No other information is available. Follow all government regulations.
12.0	Ecological Information	T # 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
		internationally for about 10 years with no reports of adverse events.
11.7	Clinical experience	Kool-Dam has been used safely and effectively in the US and
11.6	Empirical data	Not available
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
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 (more than in this product) of this material may cause eye and respiratory irritation.
11.3	Sensitization	May be sensitizing. Prolonged or frequent skin contact may cause allergic skin reactions in some susceptible individuals.
11.2	Irritation and corrosiveness	May be irritating to eyes, mucous membranes or skin on contact or with prolonged exposure.
11.1	Acute toxicity	Not toxic. Minimal health hazard in the quantities present in this product and under normal conditions of use.
11.0	Toxicological information	
10.4	Further information	Polymerization will occur when exposed to direct light.
10.3	Hazardous decomposition products	Under fire conditions and with amounts far greater than that supplied in this product, hazardous polymerization may occur with heat build- up, release of carbon monoxide, carbon dioxide, oxides of nitrogen.
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.
10.1	Conditions to avoid	Temperature extremes (>80°F / 27°C, <40°F/ 5°C), intense light, contamination.
10.0	Stability and reactivity	
9.2.13	Evaporation rate	Not determined
9.2.12	Vapor density	Not determined
9.2.11	Viscosity	Not determined
9.2.10	Partition coefficient	Not determined
9.2.9	Solubility in water	Nil
9.2.8	Specific gravity	1.290

Revision Date: March 3, 2022

Trade Name: **PULPDENT KOOL-DAM**

15.0	Regulatory Information		
15.1	EU Class I medical devices under MDR 93/42/EEC.		
15.2	US FDA	Class I medical device	
15.3	Health Canada	Class III medical device	
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.	

Revision Date: March 3, 2022