Trade Name: GLASS IONOMER CEMENTS

1.0	Commercial Product Name and Supplier				
1.1	Commercial product name / designation	GlassFill™, Gla	assLine™, GlassLut	e™	
		OrthoChoice™ (Glass lonomer Band	d Cement	
1.2	Application / Use	Dental material for use by dental professional only.			
1.2.2	SIC	851 Human health activity			
1.2.3	Use Category	55			
1.3	Manufacturer				
	Pulpdent Corporation	Telephone: 1 617 92	6-6666 / Fax: 1 617 926-6	5262	
	80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Email: <u>Pulpdent@pu</u>			
1.4	Emergency Telephone Number	1-800-535-5053 (24	1-800-535-5053 (24 Hour / USA)		
1.5		Advena Limited			
1.5	Authorized European Representative	Tower Business Cen	tre, 2nd Floor,		
		Tower Street, Swatar, BKR 4013 N	lalta		
	UK Responsible Person	Advena Limited			
		Pure Offices, Plato Close			
		Warwick, CV34 6WE	United Kingdom		
	CH Authorized Representative	MedEnvoy Switzerland			
		Gotthardstrasse 28,	6302 Zug, Switzerland		
2.0	Hazards Identification				
2.1	Classification				
2.11	Classification according to Regulation (EC)	Hazard Class	Hazard Category	Hazard Statement	
	No 1272/2008 [CLP]	Eye irritation	2	H319	
		STOT SE Skin irritation	3 2	H335 H315	
		Skin sensitization	1	H317	
2.1.2	Classification according to Directive 67/548/EEC	Irritant (Xi); R 36/	/37/38-43 (See SECTION 1	6 for full text of risk phrase	

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.

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 powder/dust.

Trade Name: GLASS IONOMER CEMENTS

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.

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

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

3.0	Composition	
3.1	Chemical characterization of the preparation:	Glass ionomer cements in two parts, powder and liquid, that are mixed together just before use.

3.2 Hazardous ingredients

	5				
	CAS Number	Name of the Ingredient	Concentration	Classification according to 67/548/EEC	Classification according to Regulation (EC) No.1272/2008 (CLP).
Powder		Alumino-fluorosilicate glass	92-100%	Xi (irritant); R: 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315
Liquid	9003-01-4	Polyacrylic acid	30-40%	Xi (irritant); R: 36/37/38-43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317

4.0	First Aid Measures		
4.1	Special Instructions	May be irritating to eyes, respiratory system, mucous membranes and skin. Liquid may cause sensitization by prolonged or repeated skin contact. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.	
4.2	Inhalation	Move to fresh air. If necessary, administer oxygen and/or artificia respiration and seek medical attention.	
4.3	Skin Contact	Wash skin thoroughly with soap and running water.	
4.4	Eye Contact	Keep eyelids apart and flush with running water for 15+ minutes. Ge medical attention if irritation persists.	
4.5	Ingestion	Rinse mouth and seek medical attention. Never give anything by mout to an unconscious person.	
4.6	Precautions for first responders	Wear safety glasses, gloves and lab coat. If powder has dispersed into the air, wear dust mask.	
4.7	Information for physician		
	Symptoms	Red and/or irritated eyes, mucous membranes or skin.	
	Hazards	May be irritating to eyes, respiratory system, mucous membranes, skin. Liquid may cause sensitization by prolonged or repeated skin contact.	
	Treatment	Same as above under First Aid.	
5.0	Fire Fighting Measures		
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.	

Pulpdent Corporation

Safety Data Sheet

Trade Name: GLASS IONOMER CEMENTS

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 equipment for fire-fighters	Self-contained breathing apparatus		
6.0	Accidental Release Measures			
6.1	Personal precautions.	Ventilate area	. Wear gloves, lab co	pat and safety glasses.
6.2	Environmental precautions	Contain spille	d material. Follow all	government regulations.
6.3	Method for clean up	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 / water.		
7.0	Handling and Storage			
7.1	Handling	Follow good hygiene practices. Cap product immediately after use. Avoid cross contamination and dispersion of powder into the air.		
7.2	Storage	Store product tightly capped in original container at cool room temperature (< 25°C). Avoid getting powder wet; avoid direct, strong light and extremes of temperature (>27°C/80°F, <5°C/40°F). Shelf life for unopened product is three 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: TLV:	<u>Powder</u> Not established Not established	<u>Liquid</u> 10 ppm 10 ppm
8.2	Exposure controls			io ppin
8.2.1	Occupational exposure controls	No special eq	uipment required und	der normal conditions of use.
8.2.1.1	Respiratory protection	No special equipment required under normal conditions of use.		
8.2.1.2	Hand protection	Usual surgical gloves will limit contact with the glass ionomer liquid.		
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	Close emergency eye wash fountain. Wash hands after use.		
8.2.2	Environmental exposure controls	Powder is inert. Liquid should not be discharged into environment. Follow all government regulations.		
9.0				
	Physical and Chemical Properties			
9.1	Physical and Chemical Properties Characteristics	Powder		Liquid
9.1 9.1.1		Powder Depends on p		Liquid Colorless to pale yellow
	Characteristics		roduct	
9.1.1	Characteristics Appearance /Color	Depends on p	roduct	Colorless to pale yellow
9.1.1 9.1.2	Characteristics Appearance /Color Odor	Depends on p None Fine powder	roduct	Colorless to pale yellow Mild, characteristic
9.1.1 9.1.2 9.1.3	Characteristics Appearance /Color Odor Physical state	Depends on p None Fine powder	roduct	Colorless to pale yellow Mild, characteristic

Trade Name: GLASS IONOMER CEMENTS

9.2.3	Flash point	Not applicable	> 110∘C
9.2.4	Flammability (solid, gas)	Not applicable Not applicable	
9.2.5	Explosive properties	Not applicable Not applicable	
9.2.6	Oxidizing properties	Not determined Not determined	
9.2.7	Vapor pressure	<1 mm Hg / 133 Pa	17 mm Hg
9.2.8	Specific gravity	5.650 1.250 to 1.150 (depending on product)	
9.2.9	Solubility in water	Nil	Dilutable
9.2.10	Partition coefficient	Not applicable	Not determined
9.2.11	Viscosity	Not applicable	Not determined
9.2.12	Vapor density	Not applicable	0.62
9.2.13	Evaporation rate	Not applicable	< 1
10.0	Stability and reactivity		
10.1	Conditions to avoid	Temperature > 38°C, cross	-contamination.
10.2	Materials to avoid	<i>Powder:</i> Strong acids. <i>Liquid:</i> acids, bases, ammonia, sodiun hydroxide, potassium hydroxide and strongly basic amines	
10.3	Hazardous decomposition products	Carbon monoxide, carbon dioxide, acrylic monomers.	
10.4	Further information	Stable if stored and used as directed.	
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, respiratory system, mucous membranes or skin on contact or with prolonged exposure.	
11.3	Sensitization	May be sensitizing. Prolonged/frequent skin contact with liquid may cause allergic skin reaction in those sensitive to acrylics.	
11.4	Sub-acute, sub-chronic and prolonged toxicity	Prolonged/frequent skin contact may cause eye, skin, mucous membrane and respiratory system irritation.	
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known	
11.6	Empirical data	Not available	
11.7	Clinical Experience	Glass lonomer Cements have been used safely and effectively in the US and internationally for more than 25 years.	
12.0	Ecological Information		
12.1	Ecotoxicity	To the best of our knowledge, Glass lonomer Powders are inert. Glass lonomer Liquids should not be discharged into the environment. Follow all government regulations.	
13.0	Disposal Considerations		
13.1	Regulations	Follow all local and nationa	al government regulations in disposing

14.0	Transport Information			
14.1	Restrictions	None. Not regulated by IATA.		
15.0	Regulatory Information			
15.1	EU	Class IIa medical device under the MDD 93/42/EEC.		
15.2	US FDA	Class II 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	 H261: Avoid breathing powder/dust. 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	 P280: Wear protective gloves and eye protection P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. 		
16.4	Restrictions on use	Glass lonomer Cements are for use 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		
16.6	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format and 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.		