SAFETY DATA SHEETS

This SDS packet was issued with item:

075898358

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

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Pulpdent Corporation Safety Data Sheet

Trade Name: PULPDENT Orthodontic Bracket Adhesive (OBA)

1.0	Commercial Product Name and Suppl	ier			
1.1	Commercial product name / designation				
1.2 1.2.2 1.2.3	Application / Use SIC Use Category	Dental material for use by dental professional only. 851 Human health activity 55			
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 Number	24 Hour Emergency	: 1-800-535-5053 (USA)		
1.5	Authorized European Representative International Business Solutions Ltd. 54 Mayfield Ridge Hatch Warren, Basingstoke, RG22 4RS UK	Tel: 07989 407479 / Fax: 01256 350330 Email: <u>s.williams5@btconnect.com</u>			
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 Statement H319 H335 H315 H317	
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Xi (Irritant);	R 36/37/38 - 43		
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	n.			
	P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection				

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

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.

3.0	Composition					
3.1	Chemical characte	erization of the preparation	Glass filler in light	ht-cured aromatic / ali	phatic methacrylate resins.	
3.2	Hazardous ingred	ients				
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1278/2008 (CLP)	
	Proprietary	Mixture of uncured methacrylate ester monomers	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	5.0 %	Xi (Irritant), R36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
4.0	First Aid Measur	es				
4.1	General Information May be irritating to eyes, respiratory system and skin. Do not inhale vapor May cause sensitization by skin contact. Show this safety data sheet medical personnel. Seek medical attention in case of uncertainty.				Show this safety data sheet to	
4.2	Inhalation Move to fresh air. If necessary, administer oxygen, artificial respiration seek medical attention.				er oxygen, artificial respiration and	
4.3	Skin Contact		Take off contaminated clothing. Wash skin thoroughly with soap and running water for 15 minutes.			
4.4	Eye Contact		Keep eyelids apart, flush with running water for 15+ minutes. Seek medical attention.			
4.5	Ingestion		Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention. May be irritating to mucous membranes.			
4.6	Precautions for fire	st responders	Ventilate the area. We	ar eye and skin proted	ction.	
4.7	Information for ph	ysicians				
	Symptoms		Irritation or redness in	eyes, throat or on skir	1.	
	Hazards		May be irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.			
	Treatment		As above under First A	Aid.		
5.0	Fire Fighting Me	asures				
5.1	Suitable extinguish	hing media	Carbon dioxide, dry oused to keep fire expo		, or water fog. Water spray may be	
5.2	Extinguishing med	dia to avoid	Do not use direct water stream			
5.3	Special exposure	hazards in a fire	Heat of fire may cause in amounts greater that		rapid release of energy, especially	
5.4	Special protective fighters	equipment for fire-	Self-contained breathing	ng apparatus.		
6.0	Accidental Relea	se Measures				
6.1	Personal precaution	ons.	Ventilate area. Wear s	safety glasses, gloves,	and lab coat.	

Revision Date: August 1, 2014

Revision Date: August 1, 2014

Trade	Name:	PULPDENT	Orthodontic	Bracket	Adhesive	(OBA)
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6.2	Environmental precautions	Contain uncured, spilled material. Cured/set-up material is, to our knowledge, inert. Follow all government regulations.	
6.3	Method for clean up	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 trained in its use. Follow good hygiene practices. Remove applicator tip from syringe and recap immediately after use. Keep light cure materials shaded from intense light sources.	
7.2	Storage	Store in tightly capped original container at cool room temperature (<25°C). Avoid direct, intense light, sources of ignition, extremes of temperature (>80°F/27°C, <40°F/5°C). 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 Protec	tion	
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.	
8.2.1.2	Hand protection	Protective gloves are recommended.	
8.2.1.3	Eye protection	Safety glasses are recommended	
8.2.1.4	Skin protection	Good personal hygiene and safety practices; wear a 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.	
9.0	Physical and Chemical Properties		
9.1	Characteristics		
9.1.1	Appearance / Color / Physical state	Stiff off-white paste	
9.1.2	Odor	Faint, characteristic	
9.2	Important health, safety and environment	ntal 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	
9.2.8	Specific gravity	1.820	
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	1
9.2.13	Evaporation rate	< 0.1
10.0	Stability and reactivity	0
10.1	Conditions to avoid	Temperature > 80°F/27°C, strong visible light.
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.
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 and release of carbon monoxide, carbon dioxide, and oxides of nitrogen.
10.4	Further information	Stable if stored and used as directed. 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 (more than in this product) of this material may cause eye and respiratory irritation.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
11.6	Empirical data	Not available
11.7	Clinical experience	OBA has been used by dental professionals for over 20 years. During that time there have been no significant complaints regarding safety or effectiveness, no recalls and no adverse events.
12.0	Ecological Information	
12.1	Eco-toxicity	Avoid release of uncured material into the environment. To the best of our knowledge, polymerized material is inert. No other information is available. Follow all 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.

15.0	Regulatory Information	
15.1	EU Regulations	Class IIa medical device under MDD 93/42/EEC.
15.2	US FDA	Class II medical device
15.3	Health Canada	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	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.

Trade Name: PULPDENT Ortho-Choice OBA Bonding Resin

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Ortho-Choice™ OBA Bonding Resin		
1.2 1.2.2 1.2.3	Application / Use SIC Use Category	Dental material for use by dental professional only. 851 Human health activity 55		
1.3	Manufacturer			
1.0	Pulpdent Corporation 80 Oakland Street P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926- Fax: 1 617 926- Email: Pulpdent@pulp	-6262	
1.4	Emergency Number	24 Hour Emergency: 1	-800-535-5053 (USA)	
1.5	Authorized European Representative International Business Solutions Ltd. 54 Mayfield Ridge, Hatch Warren Basingstoke, RG22 4RS UK	Tel: 07989 407479 / Fa		
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 Statement H319 H335 H315 H317
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Xi (Irrita	ant); R 36/37/38 - 43	
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 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.

Trade Name: PULPDENT Ortho-Choice OBA Bonding Resin

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

P410+P411: Protect from sunlight. Store at temperature not exceeding $27^{\circ}\text{C}\,/\,80^{\circ}\text{F}.$

Revision Date: May 6, 2014

3.0	Composition						
3.1	Chemical chara	acterization of the preparatio	n Aromatic / aliphatic methacrylate resins.				
3.2	Hazardous ingr	edients					
	CAS Number	Name of the Ingredien	t Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1278/2008 (CLP)		
	Proprietary	Uncured methacrylate est monomers	er 55-65%	Xi (Irritant), R36/37/38; R43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317		
4.0	First Aid Meas	sures		•			
4.1	General Information May be irritating to eyes, respiratory system and skin. Do not inhale vapor May cause sensitization by skin contact. Show this safety data sheet medical personnel. Seek medical attention in case of uncertainty.				Show this safety data sheet to		
4.2	Inhalation	Inhalation Move to fresh air. If necessary, administer oxygen, artificial respiration a seek medical attention.					
4.3	Skin Contact Take off contaminated clothing. Wash skin thoroughly with soap and rur water for 15 minutes.			thoroughly with soap and running			
4.4	Eye Contact		Keep eyelids apart, flush with running water for 15+ minutes. Seek medical attention.				
4.5	Ingestion		Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention. May be irritating to mucous membranes.				
4.6	Precautions for	first responders	Ventilate the area. V	ear eye and skin prote	ction.		
4.7	Information for physicians						
	Symptoms	Symptoms		n eyes, throat or on ski	n.		
	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 I	Measures					
5.1	Suitable exting	uishing media		chemical, alcohol foam posed containers cool.	, or water fog. Water spray may be		
5.2	Extinguishing n	nedia to avoid	Do not use direct water stream				
5.3	Special exposu	re hazards in a fire	Heat of fire may cause polymerization with rapid release of energy, especially in amounts greater than in this product.				
5.4	Special protect fighters	ive equipment for fire-		hing apparatus. Cool exation under fire condition	xposed containers with water spray ons.		
6.0	Accidental Re	lease Measures					
6.1	Personal preca	utions.	Ventilate area. Wear	safety glasses, gloves	, and lab coat.		
			2 of 5	, 5	•		

Trade Name: PULPDENT Ortho-Choice OBA Bonding Resin

6.2 6.3	Environmental precautions Method for clean up	Contain uncured, spilled material. Cured/set-up material is, to our knowledge, inert. Follow all government regulations.
3.0		Wipe up spill with suitable material (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 trained in its use. Follow good hygiene practices. Do not smoke, eat or drink while using. Remove applicator tip from syringe and cap container immediately after use. Keep light cure materials shaded from intense light sources.
7.2	Storage	Keep containers tightly closed. Store product in original container at cool room temperature (< 25°C) and in a dry, well-ventilated area. Avoid direct, intense light, sources of ignition and extremes of temperature (>80°F/27°C, <40°F/5°C). 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 Prote	ction
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 of this product in the quantity provided.
8.2.1.1	Respiratory protection	None required under normal conditions of use. Good general ventilation is sufficient to control any airborne vapors from uncured material.
8.2.1.2	Hand protection	Protective gloves are recommended.
8.2.1.3	Eye protection	Safety glasses are recommended
8.2.1.4	Skin protection	No special requirements, other than good personal hygiene, safety practices and wearing a 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.
9.0	Physical and Chemical Properties	
9.1	Appearance / Color	
9.1.1	Color / Physical state	Yellow, oily liquid.
9.1.2	Odor	Characteristic resin odor
9.2	Important health, safety and environment	ental 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

Trade Name: PULPDENT Ortho-Choice OBA Bonding Resin

12.0 12.1	Ecological Information Eco-toxicity	Avoid release of uncured material into the environment. To the best of our knowledge, polymerized material is inert. No other information is available. Follow all government regulations.
12.0	Ecological Information	
		regarding safety or effectiveness, no recalls and no adverse events
11.7	Clinical experience	OBA Resin has been used by dental professionals for over 20 years. During that time there have been no significant complaints
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	Stable if stored and used as directed. Polymerization will occur when light-cured material is 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 and release of carbon monoxide, carbon dioxide, and oxides of nitrogen.
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.
10.1	Conditions to avoid	Temperature > 80°F/27°C, strong visible light.
10.0	Stability and reactivity	
9.2.13	Evaporation rate	< 0.1
9.2.12	Vapor density	1
9.2.11	Viscosity	Not determined
9.2.10	Partition coefficient	Not determined
9.2.9	Solubility in water	Negligible
9.2.8	Specific gravity	1.0785
·	Vapor pressure	< 1 mm Hg / 133 Pa / Id: B
9.2.7	Oxidizing properties	Not determined

Revision Date: May 6, 2014

Trade Name: PULPDENT Ortho-Choice OBA Bonding Resin

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.	
15.0	Regulatory Information		
15.1	EU Regulations	Class IIa medical device under MDD 93/42/EEC.	
15.2	US FDA	Class II medical device	
15.3	Health Canada	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	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.	

1.0	Commercial Product Name and Suppl	ier			
1.1	Commercial product name / designation Ortho-Choice™ Orthodontic Bracket Adhesive (OBA)				
1.2	Application / Use	Dental material for u	se by dental professional	only.	
1.2.2	SIC	851 Human health a	ctivity		
1.2.3	Use Category	55			
1.3	Manufacturer Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: Pulpdent@pulpdent.com			
1.4	Emergency Number	24 Hour Emergency:	1-800-535-5053 (USA)		
1.5	Authorized European Representative	Advena Ltd. Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom			
2.0	Hazards Identification				
2.1	Classification	Irritant.			
2.1.1	Classification according to Regulation (EC)	Hazard Class	Hazard Category	Hazard Statement	
	No 1272/2008 [CLP]	Eye irritation STOT SE Skin irritation Skin sensitization	2 3 2 1	H319 H335 H315 H317	
2.1.2	Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)	Xi (Irritant); I	R 36/37/38 - 43		
2.2	GHS Label Elements Hazard Pictograms				
	<u>(1)</u>				
	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 Precautionary Statements P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P305+P351: If in eyes, rinse cautiously with water P337+P313: If eye irritation persists, get medical P302+P352: If on skin, wash with plenty of soap as	r reaction. r for several minutes. advice/attention. and water.			

3.0	Composition					
3.1	Chemical characterization of the preparation		Glass filler in light-cured aromatic / aliphatic methacrylate 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 of uncured methacrylate ester monomers	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	5.0 %	Xi (Irritant), R36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
4.0	First Aid Measures					
4.1	General Information		May be irritating to eyes, respiratory system and skin. Do not inhale vapors. May cause sensitization by skin contact. Show this safety data sheet to medical personnel. Seek medical attention in case of uncertainty.			
4.2	Inhalation		Move to fresh air. If necessary, administer oxygen, artificial respiration and seek medical attention.			
4.3	Skin Contact		Take off contaminated clothing. Wash skin thoroughly with soap and running water for 15 minutes.			
4.4	Eye Contact		Keep eyelids apart, flush with running water for 15+ minutes. Seek medical attention.			
4.5	Ingestion		Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention. May be irritating to mucous membranes.			
4.6	Precautions for first responders		Ventilate the area. We	ear eye and skin prote	ction.	
4.7	Information for physicians					
	Symptoms		Irritation or redness 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 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 me	dia to avoid	Do not use direct water stream			
5.3	Special exposure hazards in a fire		Heat of fire may cause polymerization with rapid release of energy, especially in amounts greater than in this product.			
5.4	Special protective equipment for fire-fighters		Self-contained breathing apparatus.			
6.0	Accidental Release Measures					
6.1	Personal precautions. V		Ventilate area. Wear s	afety glasses, gloves,	and lab coat.	

Trade Name: PULPDENT Orthodontic Bracket Adhesive (OBA)

Environmental precautions	Contain uncured, spilled material. Cured/set-up material is, to our knowledge inert. Follow all government regulations.		
Method for clean up	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.		
Handling and Storage			
Handling	For use only by dental professionals trained in its use. Follow good hygien practices. Remove applicator tip from syringe and recap immediately after use Keep light cure materials shaded from intense light sources.		
Storage	Store in tightly capped original container at cool room temperature (<25°C) Avoid direct, intense light, sources of ignition, extremes of temperatur (>80°F/27°C, <40°F/5°C). Shelf life for unopened product is two years fror date of manufacture, provided that the material has been stored properly.		
Specific uses	Dental material		
Exposure Controls / Personal Protection			
Exposure limit values	PEL: Not established. TLV: Not established.		
Exposure controls			
Occupational exposure controls	No special equipment required under normal conditions of use		
Respiratory protection	Good general ventilation is sufficient to control any airborne.		
Hand protection	Protective gloves are recommended.		
Eye protection	Safety glasses are recommended		
Skin protection	Good personal hygiene and safety practices; wear a lab coat.		
Other controls	Emergency eye wash fountain should be available. Wash hands after use.		
Environmental exposure controls	Cure material before disposing.		
Physical and Chemical Properties			
Characteristics			
Appearance / Color / Physical state	Stiff off-white paste		
Odor	Faint, characteristic		
Important health, safety and environmental information			
рН	Not determined		
Boiling point	Not determined		
Flash point	Not determined		
Flammability (solid, gas)	Not applicable		
Explosive properties	Not applicable		
Oxidizing properties	Not determined		
Vapor pressure	< 1 mm Hg / 133 Pa / Id: B		
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Specific gravity	1.820		
	Handling and Storage Handling Storage Specific uses Exposure Controls / Personal Protection Exposure controls Occupational exposure controls Respiratory protection Hand protection Eye protection Skin protection Other controls Environmental exposure controls Environmental exposure controls Physical and Chemical Properties Characteristics Appearance / Color / Physical state Odor Important health, safety and environment pH Boiling point Flash point Flammability (solid, gas) Explosive properties Oxidizing properties		

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9.2.10	Partition coefficient	Not determined	
9.2.11	Viscosity	Not determined	
9.2.12	Vapor density	1	
9.2.13	Evaporation rate	< 0.1	
10.0	Stability and reactivity		
10.1	Conditions to avoid	Temperature > 80°F/27°C, strong visible light.	
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.	
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 and release of carbon monoxide, carbon dioxide, and oxides of nitrogen.	
10.4	Further information	Stable if stored and used as directed. 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 (more than in this product) of this material may cause eye and respiratory irritation.	
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known	
11.6	Empirical data	Not available	
11.7	Clinical experience	OBA has been used by dental professionals for over 20 years. During that time there have been no significant complaints regarding safety or effectiveness, no recalls and no adverse events.	
12.0	Ecological Information		
12.1	Eco-toxicity	Avoid release of uncured material into the environment. To the best of our knowledge, polymerized material is inert. No other information is available. Follow all government regulations.	
13.0	Disposal Considerations		
13.1	Regulations Follow all local and national government regulations in dispo material or contaminated packaging.		
14.0	Transport Information		
14.1	Restrictions	None. Not regulated.	

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15.0	Regulatory Information	
15.1	EU Regulations	Class IIa medical device under MDD 93/42/EEC.
15.2	US FDA	Class II medical device
15.3	Health Canada	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	 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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