Revision Date: July 1, 2013

	SAFETY DATA SHEET						
1.0	Commercial Product Name and Supplier						
1.1 1.2 1.2.2 1.2.3 1.3	Application / Use SIC Use Category	Commercial product name  ACTIVA BioACTIVE RESTORATIVE  Application / Use  Dental material for use by dental professional only.  SIC  851 Human health activity					
1.3.1	Manufacturer		Pulpdent Corpora 80 Oakland Street P.O. Box 780 Watertown, MA 02	472 USA	Telephone: 1 617 926 Fax: 1 617 926 Email: Pulpdent@pulp	6-6262	
1.4 1.5	Emergency Teleph Authorized Europe		1-800-535-5053 (2 International Busin 54 Mayfield Ridge Hatch Warren, Bas		Tel: 07989 407479 / F JK Email: s.williams5@bt		
2.0	Hazards Identifica	ation					
2.1	Classification						
2.1.1	Classification acco <u>Hazard Class</u> Eye irritation STOT SE Skin irritation Skin sensitization	rding to Regulation (EC) N	No 1272/2008 [CLP] Hazard Category 2 3 2	I	Hazard Statement H319 H335 H315 H317		
2.1.2	Classification according to Directive 67/548/EEC Irritant; Xi; R 36/37/38 - 43 (See SECTION 16 for full text of risk phrases)						
2.2	Label Elements Labeling according to Regulation (EC) No 1272/2008 [CLP] 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 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. 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.						
3.0	Composition	Composition					
3.1 3.2	Chemical characte Hazardous ingredi	erization of the preparation	:Resin-modified gla	ss ionomer dental mate	erial		
J.Z	CAS Number	Name of the Ingredien	t (	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1278/2008 (CLP).	
	Proprietary	Blend of diurethane ar methacrylates with mo polyacrylic acid		14.6%	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	6.7%	Irritant; Xi, R 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315			
	7681-49-4	Sodium fluoride	0.75%	Harmful (Xn); R22-36/38	Acute toxicity, 4, H302 Skin irritation, 2, H315 Eye irritation, 2, H319			
4.0	First Aid Measur	res						
4.1	General Information		May be irritating to eyes, respiratory system and skin. Avoid contact with eyes and skin. Do not inhale vapors. May cause sensitization by 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 artificial respiration. Seek medical attention.					
4.3	Skin Contact		Take off contaminated clothing. Wash skin thoroughly with soap and water.					
4.4	Eye Contact		Keep eyelids apart; flush with running water for 15+ minutes. Get medical attention.					
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 fil		Ventilate the area. Wear eye and skin pi	Ventilate the area. Wear eye and skin protection.				
4.7	Information for physicians Symptoms Hazards		Irritation or redness in eyes, throat or on skin.  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 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.					
5.2	Extinguishing media to avoid		Do not use direct water stream					
5.3 5.4	Special exposure hazards in a fire		Heat may cause polymerization with rapid release of energy.					
5.4	Special protective equipment for fire-fighters		A self-contained breathing apparatus should be worn by firefighting personnel. Cool exposed containers with water spray to prevent polymerization under fire conditions.					
6.0	Accidental Relea							
6.1	Personal precautions.		Wear safety glasses, gloves and lab coa					
6.2 6.3	Environmental precautions Method for clean up		Avoid releasing large amounts of uncured material into the environment. Cured / set-up material is, to our knowledge, inert. Contain spilled material. Absorb or 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. Follow good hygiene practices. Do not smoke, eat or drink while using. Avoid direct / strong light sources, extremes of temperature (>27°C/80°F, <5°C/40°F), contamination, cross contamination of two-part materials. Recap immediately after use.					
7.2	Storage			of ignition and extremes of tem	of room temperature (<25°C) and in a dry, well-ventilated negrature. Shelf life for unopened product is two years from ordy.			
7.3	Specific uses		Dental restorative material					
8.0	Exposure Controls / Personal Protection							
8.1	Exposure limit va	lues	PEL: Not established. TLV: Not established.	shed.				
8.2	Exposure controls							
8.2.1	Occupational exposure controls		No special equipment required under no					
8.2.1.1	Respiratory protection		None required. Good general ventilation is sufficient to control any airborne vapors from uncured material.					
8.2.1.2	Hand protection		No special requirements. The usual surgical gloves worn by dental staff will limit contact with uncured material.					
8.2.1.3 8.2.1.4								
0.2.1.4	Skin protection		unnecessary exposure to uncured mate		woaming a lab coat should protect defital stall from			
8.2.1.5	Other controls		Emergency eye wash fountain should be		use.			
8.2.2	Environmental ex	posure controls	Cure material before disposing.					
			, ,					

9.0	Physical and Chemical Properties			
9.1	Appearance / Color			
9.1.1	Color / Physical state	Part A: Thick, tooth-colored paste.		
		Part B: Thick, off-white paste.		
9.1.2	Odor Faint, characteristic			
9.2	Important health, safety and environmental information			
9.2.1	pН	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		
9.2.8	Specific gravity	Part A: $1.\overline{580} \pm 0.02$ g/mL; Part B: $1.620 \pm 0.02$ g/mL		
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			
		Temporature > 20°C intense light gross contamination		
10.1 10.2	Conditions to avoid  Materials to avoid	Temperature > 38°C, intense light, cross-contamination.		
10.2		Reducing and oxidizing agents, peroxides, amines.		
10.3	Hazardous decomposition products	Under fire conditions and with amounts greater than that supplied in this product, hazardous polymerization may occur with he		
10.4	Further information	build-up and release of carbon monoxide, carbon dioxide, and oxides of nitrogen.  Stable material if stored and used as directed. Polymerization will occur when light-cured material is exposed to direct light.		
10.4	Further information	Stable material il stored and used as directed. Polymenzation will occur when light-cured material is exposed to direct light.		
11.0	Toxicological information			
11.1	Acute toxicity	Finished product in paste form presents a minimal health hazard under normal conditions of use and in the quantities necessar		
		dental restoration.		
		Sodium fluoride: Oral rat LD50: 180 mg/kg		
		Silica, amorphous: Oral rat LD50: 3160 mg/kg		
11.2	Irritation and corrosiveness	May be irritating to eyes, respiratory tract, 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 and/or frequent skin contact may cause allergic skin reactions in susceptible individuals. Prolonged exposure to large		
	prolonged toxicity	amounts (more than in this product) may cause eye and respiratory irritation.		
11.5	Carcinogenicity, Mutagenicity,	None known		
	Reproductive Toxicity			
11.6	Empirical data	Biocompatibility has been tested and found to be acceptable.		
11.7	Clinical experience	Activa Restorative is a new product that has been evaluated by dentist consultants. There have been no reports of adverse evaluated by dentist consultants.		
12.0	Ecological Information			
12.1	Ecotoxicity	Avoid release of uncured material into the environment. To the best of our knowledge, polymerized material is inert. No other		
12.1	Lootoxiony	information is available. Follow all government regulations.		
13.0	Disposal Considerations	montation of distance is close of an agreement regulation.		
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.		
10.1	-	1 Show all local and hardonal government regulations in dispessing material of contaminated pasterging.		
	Transport Information			
14.0	-	None. Not regulated.		
	Restrictions	Not regulated.		
14.0	-	Notie: Not regulated:		
<b>14.0</b> 14.1	Restrictions Regulatory Information	Activa Restorative is a Class IIA Medical Device under the Medical Devices Directive 93/42/EEC.		
<b>14.0</b> 14.1 <b>15.0</b> 15.1	Restrictions			
<b>14.0</b> 14.1 <b>15.0</b> 15.1 15.2	Restrictions  Regulatory Information  EU Regulations US FDA	Activa Restorative is a Class IIA Medical Device under the Medical Devices Directive 93/42/EEC.		
<b>14.0</b> 14.1 <b>15.0</b> 15.1	Restrictions  Regulatory Information  EU Regulations	Activa Restorative is a Class IIA Medical Device under the Medical Devices Directive 93/42/EEC.		

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	Activa Restorative is 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,	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format,
	deleted or revised.	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.

## **PULPDENT Corporation**

80 Oakland Street • Watertown, MA 02471-0780 • U.S.A. (617) 926-6666 or (800) 343-4342 • Fax (617) 926-6262