Trade Name: ACTIVA BioACTIVE-RESTORATIVE

1.0	Commercial Product Name and Sup	plier					
1.1	Commercial product name	ACTIVA Bio	ACTIVE-RESTORATIVE				
1.2 1.2.2 1.2.3	Application / Use SIC Use Category	Dental material 851 Human hea 55	for use by dental professional alth activity	only.			
1.3	Manufacturer						
	<i>Pulpdent Corporation</i> 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA		17 926-6666 / Fax: 1 617 926-6 t@pulpdent.com	6262			
1.4	Emergency Telephone Number	1-800-535-5053	3 (24 Hour / USA)				
1.5	Authorized European Representative Advena Ltd. Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom						
2.0	Hazards Identification						
2.1	Classification						
2.1.1	Classification according to Regulation (EC) No 1272/2008 [CLP]	<u>Hazard Class</u> Eye irritation STOT SE Skin irritation Skin sensitization	<u>Hazard Category</u> 2 3 2 1	<u>Hazard Statement</u> H319 H335 H315 H317			
2.1.2	Classification according to Directive 6	ssification according to Directive 67/548/EEC Irritant; Xi; R 36/37/38 – 43 (See SECTION 16 for full text of risk phras					
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.

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.

Pulpdent Corporation Safety Data Sheet

3.0	Composition					
3.1	Chemical characterization of the preparation:		Bioactive ionic resin with reactive glass filler			
3.2	Hazardous ingredients					
	CAS Number Name of the In		e Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP).
	Proprietary	Blend of diurethane and other methacrylates with modified polyacrylic acid		44.6%	Irritant; Xi R 3637//38 - 43	Eye irritation, 2 STOT SE 3 Skin irritation, 2 Skin sensitization, 1
	112945-52-5	Silica, amorph	nous	6.7%	Irritant; Xi, R 36/37/38	Eye irritation, 2 STOT SE 3 Skin irritation, 2
	7681-49-4	Sodium fluorio	le	0.75%	Harmful (Xn); R22-36/38	Acute toxicity, 4 Skin irritation, 2 Eye irritation, 2
4.0	First Aid Measure	s		-		
4.1	General Information May be irritating to eyes, respiratory system and skin. Avoid contact with eyes skin. Do not inhale vapors. May cause sensitization by skin contact. Show this s data sheet to medical personnel. Get medical attention in case of uncertainty.			on by skin contact. Show this safety		
4.2	Inhalation		Move to fre medical att		ry, administer oxyg	en and/or artificial respiration. Seel
4.3	Skin Contact		Take off co	ontaminated clothin	ıg. Wash skin thorou	ighly with soap and water.
4.4	Eye Contact		Keep eyelic	ds apart; flush with	running water for 1	5+ 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	Precautions for first responders Ventilate the		e area. Wear eye and skin protection.			
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 A		As above under First Aid.			
5.0	Fire Fighting Mea	sures				
5.1	Suitable extinguish	ing media		oxide, dry chemical e exposed containe		rater fog. Water spray may be used
5.2	Extinguishing media to avoid		Do not use direct water stream			
5.3	Special exposure h	nazards in a fire	Heat may c	cause polymerization	on with rapid release	e of energy.
5.4	Special protective of fire-fighters	equipment for	Self-contai	ned breathing appa	aratus	
6.0	Accidental Releas	e Measures				
6.1	Personal precautio	ns.	Wear safet	y glasses, gloves a	and lab coat.	

6.2	Environmental precautions	Avoid releasing large amounts of uncured material into the environment. Cured / set- up material is, to our knowledge, inert.
6.3	Method for clean up	Contain spilled material. Absorb/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. Avoid direct / strong light sources, temperature extremes (>27°C/80°F, <5°C/40°F), contamination, cross contamination. Recap immediately after use.
7.2	Storage	Store product in tightly capped original container at cool room temperature (<25°C). Avoid direct, strong light, sources of ignition and extremes of temperature. 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 restorative material
8.0	Exposure Controls / Personal Prot	tection
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. 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	Eye protection	No special requirements other than the usual safety glasses worn by dental staff.
8.2.1.4	Skin protection	No special requirements. Good personal hygiene, safety practices and wearing a lab coat should protect dental staff from unnecessary exposure to uncured material.
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	Part A: Thick, tooth-colored paste. Part B: Thick, off-white paste.
9.1.2	Odor	Faint, characteristic
9.2	Important health, safety and environr	nental 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	
9.2.8	Specific gravity	Part A: 1.580 ± 0.02 g/mL; Part B: 1.620 ± 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		
10.1	Conditions to avoid	Temperature > 38°C, intense light, cross-contamination.	
10.2	Materials to avoid	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 heat build-up and release or carbon monoxide, carbon dioxide, and oxides of nitrogen.	
10.4	Further information	Stable material if stored and used as directed. Polymerization will occur wher 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 necessary for dental restoration.	
		Sodium fluoride: Oral rat LD ₅₀ : 180 mg/kg	
		Silica, amorphous: Oral rat LD ₅₀ : 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 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) may cause eye and respiratory irritation.	
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known	
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 events.	
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 information is available. Follow all government regulations.	
13.0	Disposal Considerations		

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 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 < 27°C / 80°F.
16.4	Restrictions on use	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.