Safety Data Sheet

Trade Name: ACTIVA BioACTIVE-RESTORATIVE

1.0	Commercial Product Name and Supplier	
1.1	Commercial product name	ACTIVA BioACTIVE-RESTORATIVE
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 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: <u>Pulpdent@pulpdent.com</u>
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

2.0	Hazards Identification				
2.1	Classification				
2.1.1	Classification according to	Hazard Clas	<u>ss</u>	Hazard Category	Hazard Statement
	Regulation (EC)	Eye irritation	ı	2	H319
	No 1272/2008 [CLP]	STOT SE		3	H335
		Skin irritatio	n	2	H315
		Skin sensitiz	zation	1	H317
2.1.2	Classification according to Directi	ve 67/548/EEC	Irritant; Xi; R 36/	/37/38 – 43 (See SECTION 1	6 for full text of risk phrases)

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.

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

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		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	de	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 states to medical personnel. Get medical attention in case of uncertainty.			on by skin contact. Show this safety			
4.2	Inhalation		Move to fre medical atte		ry, administer oxyg	en and/or artificial respiration. Seek	
4.3	Skin Contact	act Take		Take off contaminated clothing. Wash skin thoroughly with soap and water.			
4.4	Eye Contact		Keep eyelid		s 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				entilate the 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 u	As above under First Aid.			
5.0	Fire Fighting Mea	sures					
5.1	5 5		kide, dry chemical, alcohol foam, or water fog. Water spray may be used exposed containers cool.				
5.2	Extinguishing media to avoid Do r		Do not use	Do not use direct water stream			
5.3	Special exposure h	azards in a fire	Heat may c	may cause polymerization with rapid release of energy.			
5.4			ned breathing appa	aratus			

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6.1	Personal precautions.	Wear safety glasses, gloves 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 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. 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 lift 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 Prof	ection	
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 vapor from uncured material.	
8.2.1.2	Hand protection	No special requirements. The usual surgical gloves worn by dental staff will lim 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 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 environmental information		
9.2.1	pH	Not determined	
9.2.2	Boiling point	Not determined	
9.2.3	Flash point	Not determined	
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9.2.4	Flammability (solid, gas)	Not applicable	

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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 of carbon monoxide, carbon dioxide, and oxides of nitrogen.
10.4	Further information	Stable material 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	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
11.2	Irritation and corrosiveness	Silica, amorphous: Oral rat LD ₅₀ : 3160 mg/kg
11.2	imiation 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	
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 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.