Safety Data Sheet

Trade Name: ACTIVA BioACTIVE PRODUCT LINE

1.0	Commercial Product Name and Supplier							
1.1	Commercial product name	<u>Codes</u>						
	ACTIVA BioACTIVE-BASE / LINER	VB1, VB2						
	ACTIVA BioACTIVE-CEMENT	VC1A2, VC2A2, V	VC1T, VC2T					
	ACTIVA BioACTIVE-RESTORATIVE	VRA1, VRA2, VR VR2A1, VR2A2, V	A3, VRA35, VR1A1, VR1A2 VR2A3, VR2A35	2, VR1A3, VR1A35,				
	ACTIVA KIDS BioACTIVE-RESTORATIVE	VKP, VK1P, VK2	VKP, VK1P, VK2P					
1.2	Application / Use	Dental material fo	or use by dental professional	l only.				
1.2.2	SIC	851 Human healt	h 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 Email: <u>Pulpdent@</u>	⁷ 926-6666 / Fax: 1 617 926- Ppulpdent.com	-6262				
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)						
1.5	Authorized European Representative	tative 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]	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/E	EC Irritant; Xi; R 36	137/38 – 43 <i>(See SECTION 1</i>	6 for full text of risk phrases,				
2.2	GHS Label Elements							
	Hazard Pictograms							
	!							
	Signal Word: WARNING Restricted to use by dental professional o Hazard Statements H319: Eye irritation. 2. May cause eye irritation	-						

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

 $\label{eq:problem} P305 + P351: If in eyes, rinse cautiously with water for several minutes.$

P337+P313: If eye irritation persists, get medical advice/attention.

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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.

	P410+P411: F	P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.							
3.0	Composition								
3.1	Chemical chain preparation:	racterization of the	Bioactive ionic resin with reactive glass filler						
3.2	Hazardous ingredients								
	CAS Number Name of the Ingredien		nt Concentration (%)				Classification per	Classification per Regulation	
			VB	VC	VR	VKP	67/548/EEC	(EC) No.1272/2008 (CLP).	
	Proprietary	Blend of diurethane and other methacrylates with modified polyacrylic acid	53.20	52.90	44.60	44.60	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	3.00	5.10	6.70	6.70	Irritant; Xi, R 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
	7681-49-4	Sodium fluoride	0.90	0.90	0.75	0.75	Harmful (Xn); R22-36/38	Acute toxicity, 4, H302 Skin irritation, 2, H315 Eye irritation, 2, H319	
4.0	First Aid Mea	asures							
4.1	General Inforr	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	•				Wear eye and skin protection.				
4.7	Information fo	r 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 Measures								
5.1	Suitable extin		Carbon did to keep fire				foam, or water fog	g. Water spray may be used	
5.2	Extinguishing	Do not use direct water stream							
5.3	Special exposure hazards in a fire Heat may cause polymerization with rapid release of energy.					ergy.			
5.4	Special protect	ctive equipment for	r Self-contained breathing apparatus						

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fire-fighters

	ine ngritors							
6.0	Accidental Release Measures							
6.1	Personal precautions.	Wear safe	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 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. 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 tightly capped in original container at cool room temperature (<25°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 ma	Dental material					
8.0	Exposure Controls / Personal Protection							
8.1	Exposure limit values	PEL: Not	PEL: Not established. TLV: Not established.					
8.2	Exposure controls							
8.2.1	Occupational exposure controls	No speci	No special equipment required under normal conditions of use					
8.2.1.1	Respiratory protection	Good general ventilation is sufficient to control any airborne vapors.						
8.2.1.2	Hand protection	No special requirements other than the usual surgical gloves worn by dental staff.						
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 Good personal hygiene and safety practices; 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							
9.0	Physical and Chemical Properties							
9.1	Characteristics							
9.1.1	Appearance /Color / Physical state		VB	VC	VR	VKP		
		Part A	Yellowish paste	Yellowish paste	Thick, tooth- colored paste	Thick, opaque white paste		
		Part B	Off white paste	Off white paste	Thick, off-white paste	Thick, off-white paste		
9.1.2	Odor	Faint, characteristic						
9.2	Important health, safety and environmental 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)	ammability (solid, gas) Not applicable						

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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		VB	VC	VR	VKP		
		Part A	1.460	1.460	1.580	1.580		
		Part B	1.380	1.380	1.620	1.620		
9.2.9	Solubility in water	Nil						
9.2.10	Partition coefficient	Not determine	ed					
9.2.11	Viscosity	Not determine	ed					
9.2.12	Vapor density	Not determine	ed					
9.2.13	Evaporation rate	Not determine	Not determined					
10.0	Stability and reactivity							
10.1	Conditions to avoid	Temperature	> 38°C, inten	se light, cross-o	contamination.			
10.2	Materials to avoid	Reducing and	l oxidizing ag	ents, 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						
		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 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 BioACTIVE Products are a new product line that has been on the market for about one year. There have been no serious complaints, recalls, or reports of adverse events.						
12.0	Ecological Information							
12.1	Ecotoxicity		olymerized r	material is iner		t. To the best of our prmation is available.		

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13.0	Disposal Considerations				
13.1	Regulations Follow all local and national government regulations in disposing ma contaminated packaging.				
14.0	Transport Information				
14.1	Restrictions None. Not regulated.				
15.0	Regulatory Information				
15.1	EU Regulations	Class IIa medical devices under MDD 93/42/EEC.			
15.2	US FDA	Class II Medical Devices			
15.3	Health Canada	Class III medical devices			
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	ACTIVA BioACTIVE 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.			