


**EN - Safety Data Sheet**Trade Name: **ACTIVA BioACTIVE PRODUCT LINE**

<b>1.0</b>	<b>Commercial Product Name and Supplier</b>		
1.1	<u>Commercial product name</u>	<u>Codes</u>	
	<b>ACTIVA BioACTIVE-BASE / LINER</b>	VB1, VB2	
	<b>ACTIVA BioACTIVE-CEMENT</b>	VC1A2, VC2A2, VC1T, VC2T	
	<b>ACTIVA BioACTIVE-RESTORATIVE</b>	VRA1, VRA2, VRA3, VRA35, VR1A1, VR1A2, VR1A3, VR1A35, VR2A1, VR2A2, VR2A3, VR2A35	
	<b>ACTIVA KIDS BioACTIVE-RESTORATIVE</b>	VKP, VK1P, VK2P	
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		
	<b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: <a href="mailto:Pulpdent@pulpdent.com">Pulpdent@pulpdent.com</a>	
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	
	UK Responsible Person	Advena Limited Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom	
	CH Authorized Representative	MedEnvoy Switzerland Gotthardstrasse 28, 6302 Zug, Switzerland	

<b>2.0</b>	<b>Hazards Identification</b>			
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No 1272/2008 [CLP]	<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statement</u>
		Eye irritation	2	H319
		STOT SE	3	H335
		Skin irritation	2	H315
		Skin sensitization	1	H317
2.2	<b>GHS Label Elements</b>			
	Hazard Pictograms			
		Signal Word: <b>WARNING</b>		
	<b>Restricted to use by dental professional only.</b>			
	<b>Hazard Statements</b>			
	H319: Eye irritation. 2. May cause eye irritation.			
	H335: STOT SE. 3. May cause respiratory irritation.			
	H315: Skin irritation. 2. May cause skin irritation.			

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H317: Sensitization. 1. May cause an allergic skin reaction.

**Precautionary Statements**

P261: Avoid breathing vapor.

P280: Wear protective gloves and eye protection

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P317: If eye irritation persists, get medical help.

P302+P352: If on skin, wash with plenty of soap and water.

P333+P317: If irritation or rash occurs, get medical help.

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

<b>3.0 Composition</b>						
3.1	Chemical characterization	Bioactive ionic resin with reactive glass filler				
3.2	Hazardous ingredients					
CAS Number	Name of the Ingredient	Concentration (%)				Classification per Regulation (EC) No.1272/2008 (CLP).
		BASE/LINER	CEMENT	RESTORATIVE	KIDS RESTORATIVE	
Proprietary	Blend of diurethane and other methacrylates with modified polyacrylic acid	53.20	52.90	44.60	44.60	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	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	Acute toxicity, 4, H302 Skin irritation, 2, H315 Eye irritation, 2, H319
<b>4.0 First Aid Measures</b>						
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	Precautions for first responders	Ventilate the area. Wear eye and skin protection.				
4.7	Information for physicians					
	Symptoms	Irritation or redness in eyes, throat or on skin.				

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	Hazards	May be irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.
	Treatment	As above under First Aid.
<b>5.0</b>	<b>Fire Fighting Measures</b>	
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	Special exposure hazards in a fire	Heat may cause polymerization with rapid release of energy.
5.4	Special protective equipment for fire-fighters	Self-contained breathing apparatus
<b>6.0</b>	<b>Accidental Release Measures</b>	
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 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.
<b>7.0</b>	<b>Handling and Storage</b>	
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 material
<b>8.0</b>	<b>Exposure Controls / Personal Protection</b>	
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 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	Cure material before disposing.
<b>9.0</b>	<b>Physical and Chemical Properties</b>	
9.1	Characteristics	

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9.1.1	Appearance /Color / Physical state		BASE /LINER	CEMENT	RESTORATIVE	KIDS RESTORATIVE
		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	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				
9.2.6	Oxidizing properties	Not determined				
9.2.7	Vapor pressure	< 1 mm Hg				
9.2.8	Specific gravity		BASE /LINER	CEMENT	RESTORATIVE	KIDS RESTORATIVE
		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 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 <sub>50</sub> : 180 mg/kg; Silica, amorphous: Oral rat LD <sub>50</sub> : 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.

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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.
<b>12.0</b>	<b>Ecological Information</b>	
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.
<b>13.0</b>	<b>Disposal Considerations</b>	
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.
<b>14.0</b>	<b>Transport Information</b>	
14.1	Restrictions	None. Not regulated.
<b>15.0</b>	<b>Regulatory Information</b>	
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
<b>16.0</b>	<b>Other information</b>	
16.1	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.
16.2	Precautionary Statements	P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P305 + P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P317: If eye irritation persists, get medical help. P302 + P352: If on skin, wash with plenty of soap and water. P333 + P317: If irritation or rash occurs, get medical help. P410 + P411: Protect from sunlight. Store at temperature $\leq 27^{\circ}\text{C}$ / $80^{\circ}\text{F}$ .
16.3	Restrictions on use	ACTIVA BioACTIVE Products are to be sold to and used by dental professionals only.
16.4	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.
16.5	Sources of key data	National Institute for Occupational Safety (NIOSH) US Occupational Safety and Health Administration (OSHA)

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Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP), Regulation (EU) No 487/2013 and Regulation (EC) No. 1907/2006 (REACH).

European Chemicals Agency Guidance on the compilation of safety data sheets  
Version 4.0 April 2020

16.6 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. 487/2013 (CLP), , (EC) No. 1907/2006 (REACH) and ECHA Version 4.0 April 2020.

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