H317

Irritant; Xi; R 36/37/38 – 43 (See SECTION 16 for full text of risk phrases)

Safety Data Sheet

Trade Name: ACTIVA BioACTIVE-CEMENT

1.0	Commercial Product Name and Supplier	r		
1.1	Commercial product name	ACTIVA Bio	ACTIVE-CEMENT	
1.2	Application / Use	Dental material	for use by dental professiona	l only.
1.2.2	SIC	851 Human he	alth activity	
1.2.3	Use Category	55		
1.3	Manufacturer			
	Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	•	17 926-6666 / Fax: 1 617 926 t@pulpdent.com	-6262
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 Limiteo Pure Offices, P Warwick, CV34	•	
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	Hazard Category 2 3 2	Hazard Statement H319 H335 H315

Skin sensitization

2.1.2 Classification according to Directive 67/548/EEC2.2 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.

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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.

Revision Date: February 10, 2021

	P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.					
3.0	Composition					
3.1	Chemical characteri	racterization 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 Silica, amorphous		52.9%	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			5.1%	Irritant; Xi, R 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315
	7681-49-4	Sodium fluorio	le	0.90%	Harmful (Xn); R22-36/38	Acute toxicity, 4, H302 Skin irritation, 2, H315 Eye irritation, 2, H319
4.0	First Aid Measures					
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	nc		Move to fresh air. If necessary, administer oxygen and/or artificial respiration. Seek medical attention.		
4.3	Skin Contact		Take off co	ntaminated clothin	g. Wash skin thorou	ighly with soap and water.
4.4	Eye Contact	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 Ventila4.7 Information for physicians		Ventilate the	e area. Wear eye	and skin protection.		
	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 ab		As above u	As above under First Aid.		
5.0	Fire Fighting Meas	sures				
5.1	Suitable extinguishi	uitable 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	xtinguishing media to avoid Do not use direct water stream				
5.3	Special exposure ha	azards in a fire	Heat may cause polymerization with rapid release of energy.			
5.4	Special protective e	quipment for	Self-contain	ned breathing appa	aratus	

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fire-fighters

	0		
6.0	Accidental Release Measures		
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.	
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). 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 cement	
8.0	Exposure Controls / Personal Protection		
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.	
9.0	Physical and Chemical Properties		
9.1	Characteristics		
9.1.1	Appearance /Color / Physical state	Two pastes: Part A is yellowish; Part B is off-white	
9.1.2	Odor	Faint, characteristic	
9.2	Important health, safety and environi	mental 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	

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13.1	Regulations	Follow all local and national government regulations in disposing material or
13.0	Disposal Considerations	
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.
12.0	Ecological Information	
11.7	Clinical experience	ACTIVA Bio-ACTIVE-CEMENT is a new product that has been evaluated by dentist consultants. There have been no reports of adverse events. ACTIVA Bio-ACTIVE-BASE/LINER, a similar material, has been on the market for about 18 months with positive reviews and no complaints or adverse events.
11.6	Empirical data	Biocompatibility has been tested and found to be acceptable.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
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.
11.3	Sensitization	May be sensitizing. Prolonged or frequent skin contact may cause allergic skin reactions in some susceptible individuals.
11.2	Irritation and corrosiveness	May be irritating to eyes, respiratory tract, mucous membranes or skin on contact or with prolonged exposure.
		Silica, amorphous: Oral rat LD50: 3160 mg/kg
		conditions of use and in the quantities necessary for dental restoration. Sodium fluoride: Oral rat LD_{50} : 180 mg/kg
11.1	Acute toxicity	Finished product in paste form presents a minimal health hazard under normal
11.0	Toxicological information	
10.4	Further information	Stable material if stored and used as directed. Polymerization will occur when light-cured material is exposed to direct light.
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.
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.
10.1	Conditions to avoid	Temperature > 38°C, intense light, cross-contamination.
10.0	Stability and reactivity	
9.2.13	Evaporation rate	Not determined
9.2.12	Vapor density	Not determined
9.2.11	Viscosity	Not determined
9.2.10	Partition coefficient	Not determined
9.2.9	Solubility in water	Nil
9.2.8	Specific gravity	Part A: 1.460 ± 0.02 g/mL; Part B: 1.380 ± 0.02 g/mL
9.2.7	Vapor pressure	< 1 mm Hg

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		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	ACTIVA Bio-ACTIVE-CEMENT 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, 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.