

**SAFETY DATA SHEET**  
**Cem-Implant™, Catalyst****1. Chemical Product and Company Identification**

Product Name: **Cem-Implant™ Implant Cement, Catalyst RX**

Description: Non-Eugenol, self-cure resin cement for implant retained crowns.

Restrictions on use: For use only by dental professionals.

Manufacturer: **B.J.M. Laboratories Ltd.**

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**2. Hazards Identification**

Acute Health Hazards: May cause eye, respiratory and skin irritation in high concentration.



Chronic Health Hazards: Material is not known to cause significant health problems

Signs and Symptoms of Exposure: High concentrations can cause eye and respiratory irritation. Prolonged skin exposure can cause dryness.

Primary routes of exposure: Inhalation, skin contact, eye contact.

Carcinogenicity: NTP - no, OSHA - no, IARC – no.

**3. Composition / Information on Ingredients**

Hazardous Ingredients	% by Wt	CAS #	Hazard Identification & Risk Phrases
Urethane dimethacrylate *	<60 % *	Proprietary *	H317/411
Triethylenglycoldimethacrylate	<40 % *	109-16-0	Xi, H319/335/315, H317
Benzoyl Peroxide	<5 % *	94-36-0	Explosive, Xi
Zirconium Oxide	<10 % *	1314-23-4	Xi, H319/335/315
Non-hazardous ingredients			
Fumed Silica	<5 % *	112945-52-5	N/A

\* The specific chemical identity and/or exact percentage (concentration) of this composition has been

withheld as a trade secret.

✓ Additional information: For the wording of the listed risk phrases refer to section 16.

#### 4. First Aid Measures

In case of inhalation: If irritation occurs, take victim to open air. If breathing difficulty persists, consult a physician.

In case of skin contact: Wash with soap and water.

In case of eye contact: Flush with large quantities of water for 15 minutes. Consult a physician.

In case of ingestion: Consult a physician.

#### 5. Fire-Fighting Measures

Flash point: N/A

Extinguishing Media: Carbon dioxide, water spray, dry chemical.

Special Fire Fighting Procedures: Avoid a direct jet of water.

Unusual Fire and Explosion Hazards: None.

#### 6. Accidental Release Measures

Environmental Precautions: Avoid spillage into sewers and water supplies.

Clean-Up Procedure: Contain spill and pick up material with a suitable absorbent material . Place absorbent into a container for later disposal.

#### 7. Handling and Storage

Handling: No special measures necessary if handled according to instruction

Storage: Keep container tightly closed when not in use. Store in a cool, dry location. Keep material in original packaging.

Storage away from light, open flames, contamination and prolonged storage above 24°C (75°F).

#### 8. Exposure Controls / Personal Protection

Exposure Controls: Use only in well-ventilated areas

Respiratory Protection: Avoid inhalation of vapors. No special protection under normal use.

Hand and Skin Protection: Avoid unnecessary skin contact. Wear latex gloves when handling

Eye Protection: Wear safety goggles or safety glasses with side shields when handling,

Hygiene Measures: Remove spilled material from skin and clothing. Do not eat or drink when handling this material

#### 9. Physical and Chemical Properties

Appearance: White paste.

Odor: Specific odor

Boiling Point: N/A

Evaporation Rate (Water = 1): N/A

Vapor Density (Air = 1): N/A

Solubility in Water: Insoluble

#### 10. Stability and Reactivity

Stability: This material is stable.

Hazardous Reactions: None if handled according to directions.

Hazardous Polymerization: May occur.

Conditions to Avoid: Heat, UV light.

Incompatibility: Free radicals, reducing agents, heavy metal ions

Hazardous Decomposition Products: Carbon dioxide, water, carbon monoxide, acrylic decomposition products, depending on conditions of heating and burning.

## 11. Toxicological Information

Acute oral toxicity: LD50 (rat) > 5000mg/KG

Irritation of Skin: Dryness and irritation possible upon prolonged exposure

Allergic Effects: Methacrylate sensitive individuals may exhibit an allergic reaction.

## 12. Ecological Information

Do not discharge into sewers or water supplies.

Environmental persistence and degradability: no data available

Ecotoxicity: no data available

## 13. Disposal Considerations

May be disposed of in landfill or Incinerator In accordance with local, state and federal regulations.

## 14. Transport Information

14.1 Transport at land	ADR	RID
	UN Number	Kemler Number
	Packing Group	
	Proper shipping name	
14.2 Transport at sea	ADNR	IMD
	UN Number	G
	EMS	MFA
	Packing Group	G
	Proper shipping name	
14.3 Air transport	ICAO / IATA-DGR	
	UN Number	
	Proper shipping name	
	Subsidiary Risk	
	Labels	
	Packing Group	

**U.S. DOT Shipping Name:** Not Regulated

**U.S. DOT Hazard Class:** None

**U.N./N.A. Number** None

**U.S. DOT Packing Group:** None

**Other:** Not considered hazardous cargo

### 15. Regulatory Information

This product requires classification according to the criteria of EC.

The product is a medical device according to the Council Directive 93/42/EEC and EU Regulation 2017/745 for Medical Devices.

- 15.1 UN Number
- 15.2 National regulations
- 15.3 EU number
- 15.4 Hazard symbols



Xi,

- 15.5 Hazard designation

Xi: Irritant.

- 15.6 Risk phrases

H: 319, 335/315, 317  
310 Irritating to eyes.  
335/315 Irritating to respiratory system and skin.  
317 May cause sensitization by skin contact.

- 15.7 Safety phrases

P: 102, 403, 210, 260, 305+351+338, 303+361+353, 262, 280  
102 Keep out of the reach of children  
403 Keep container in a well-ventilated place.  
210 Keep away from sources of ignition - No smoking.  
260 Do not breathe vapor.  
305+351+338 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
303+361+353 After contact with skin, wash immediately with plenty of water and soap.  
262 Avoid contact with skin and eyes.  
280 Wear suitable gloves and eye/face protection.

**U.S.-O.S.H.A. Status:** This material is not hazardous under the criteria of the U.S Federal Hazard Communication Standard.

### 16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall establish a legally valid contractual relationship.

**Relevant H-phrases**

**319/335/315** Irritating to eyes respiratory system and skin.



Xi Irritant

Material should be maintained in original containers. Empty containers should not be re-used.

**ANSI/NFPA 704 Data**

Fire = 1

Health = 0

Reactivity = 0

Specific Hazard = None

**Revision 6.1** *EU acc. to ISO 11014, REACH*

**Last revised:** 29-Oct-2023

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This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.

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