**Hema–Benz SAFETY DATA SHEET**

Conditions to Avoid: Extreme heat and free radical initiators.

**SECTION XI - TOXICOLOGICAL INFORMATION**

Acute Toxicity: ID oral rat. 2,000 mg/kg

Ames Test: Negative. Acrylates can cause sensitization reactions.

**SECTION XII - ECOLOGICAL INFORMATION**

Waste may be considered as inert material.

**SECTION XIII - DISPOSAL CONSIDERATION**

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

**SECTION XIV - TRANSPORT INFORMATION**

Stable under normal conditions of use, transportation, and storage.

**SECTION XV - REGULATORY INFORMATION**

510k # K953405

**SECTION XVI - OTHER INFORMATION**

WARNING! Avoid contact with eyes, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS. Keep away from children.

The data and information given in this SDS are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.

Healthdent’l L.L.C.

115 E. Ogden Ave. Suite 117-322

Naperville, Illinois 60563 USA

Phone 1-800-845-5172

**Desensitizer with Fluoride**





**Hema–Benz**TM

**INSTRUCTIONS**

**Hema–Benz** TM is a superior desensitizing agent, to be placed under dental cements or other restorative materials – temporary, provisional or final. **Hema–Benz** can be used for desensitization of amalgam restorations, either conventional or bonded. **Hema–Benz** helps kill bacteria, alter nerve responses and aids bonding primers in penetrating etched dentin.

**GENERAL INFORMATION**

**Hema–Benz** contains Benzalkonium chloride and HEMA as well as a small amount of sodium fluoride as an added source of fluoride ion.

**WITH GLASS IONOMER AND ZINC PHOSPHATE CEMENTS**

**Hema–Benz** is very effective when applied to vital crown preparations prior to luting with these cements. It may also be used at the “prep” appointment to desensitize during temporization. When **Hema–Benz** is used properly in conjunction with these cements, complete desensitization will result in nearly all preparations.

**WITH RESIN ADHESIVES**

Most dentin bonding materials such as All Bond 2, Tenure, Optibond, Scotchbond

MP, Photo Bond, etc. will benefit from **Hema–Benz** application. The application of

**Hema–Benz** reliably reduces post-op sensitivity by supporting the collagen framework for easier penetration of the adhesive, thus enhancing the dentin bond.

**WITH AMALGAMS**

**Hema–Benz** can be used to eliminate post-op sensitivity under standard amalgam restorations.

**NON-BONDED RESTORATIONS**

1. Clean tooth prep area.
2. Dry with air (dryness is not critical).
3. Apply **Hema–Benz** to dried tooth using brush or cotton pellet. Avoid soft tissue.
4. Wait 30 seconds, then dry with air.
5. Place restorative material such as amalgam, castings, etc. (Zinc phosphate and glass ionomer cements work well with **Hema–Benz**.)

**Hema–Benz INSTRUCTIONS**

**BONDED APPLICATIONS**

1. Clean tooth prep area.
2. Etch with 10 - 40% phosphoric acid for 15 to 30 seconds.
3. Rinse.
4. Dry with air (dryness is not critical).
5. Apply **Hema–Benz**, using brush or cotton pellet. Avoid soft tissue.
6. Wait 30 seconds, then dry or leave moist, per manufacturer’s instructions for the bonding agent.

7a. Direct restorations: Apply composite bonding agent and composite per manufacturer’s instructions.

7b. Indirect restorations or sealing preparation: Apply composite bonding agent and luting resin per manufacturer’s instructions.

**STORAGE AND SHELF LIFE**

Expiration date is placed on each **Hema–Benz** bottle. **Hema–Benz** has a three year shelf life when kept below 25OC/77OF.

|  |  |  |
| --- | --- | --- |
|  | **Hema–Benz** | **SAFETY DATA SHEET** |
|  |  |  |
| **SECTION I - PRODUCT IDENTIFICATION** | | |
| Company: | | Healthdent’l L.L.C. |
|  |  | 115 E. Ogden Ave. Suite 117-322 |
|  |  | Naperville, Illinois 60563 |
| Phone: | | 1-800-845-5172 |
|  | |  |
| Prepared: | | April 15, 2015 |

**SECTION II - HAZARD(S) IDENTIFICATION**

OSHA Permissible Exposure Limits: None Other Exposure Limit Used: None ACGIH Threshold Exposure Limit: None Chronic, Other: None

Acute Overexposure: Irritation to eyes and skin. May cause chemical burn. Medical Conditions Generally Aggravated by Exposure: None Known Hygienic Practices: None

Primary Route(s) of Exposure: Skin, eye, ingestion.

**SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Material** | **% WGT** | **OSHA PEL** | **ACGIH TLV** |  |
| Benzalkonium Chloride | 1-5% | 0.2 ppmv | 0.2 ppmv |  |
| Hydroxylethyl Methacrylate | 25-45 | NA | NA |  |
| Sodium Fluoride | 10 ppm | NA | N/A |  |
| Water | Balance |  |  |  |
|  |  |  |  |

(ND = Not Determined NA = Not Applicable NL = Not Listed)

**Hema–Benz SAFETY DATA SHEET**

**SECTION IV - FIRST-AID MEASURES**

Skin: Wash off affected area with soap and water.

Ingestion: Seek immediate medical advice, carry container with label. Eyes: Rinse immediately with plenty of water and seek medical advice.

**SECTION V - FIRE-FIGHTING MEASURES**

Flashpoint: >+ 104 0C

Extinguishing Media: Carbon Dioxide, Foam, Dry Chemical

Special Fire Fighting Procedures: None

Flammable Limits: NA

Unusual Fire and Explosion Hazards: None

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

Avoid contact with eyes, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS. Keep away from children.

**SECTION VII - HANDLING AND STORAGE**

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory: None required Eye Protection: Safety goggles Glove: Rubber/PVC gloves

Other Clothing & Equipment: None Ventilation: None required

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure mm HG: NA Vapor Density (Air - 1): NA Evaporation Rate (Ether = 1): NA % Volatile by Volume: NA Solubility in Water: Soluble Boiling Point: NA

Appearance: Clear liquid Odor: None

**SECTION X - STABILITY AND REACTIVITY**

Stability: Stable

Conditions to Avoid: Prolonged Extreme Heat

Incompatibility: (Materials to avoid) Contact with iron.

Hazardous Decomposition Products: None

Hazardous Polymeration: None