

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

076467294

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

076467104 076467112 076467120 076467138 076467146 076467153 076467161 076467237 076467245 076467252  
076467260 076467278 076467286 076467377 076467385 076467401 076467419 076467427 076467435 076467443  
076467450 076467468 076467476

### **1. Chemical Product and Contact Information**

**Product Name:** Build-It® Light Cure Core Material

**Material Safety Sheet Number:** 00343

**Date of Issue:** 07/17/09

**Revision Date:** 05/07/10

**Company Identification:** Pentron Clinical  
1717 West Collins Ave.  
Orange, CA 92867  
Phone: 800-551-0283  
203-265-7397

**Emergency Information Chemtrec:** 800-424-9300

**Chemtrec International:** 202-483-7616

### **2. Composition/Information on Ingredients**

**Chemical characteristics:** A non-BisGMA resin mixture of difunctional methacrylates of PHGMA, UDMA and TEGDMA, barium boro-silicate glass\*, nano-particulated silica, photoinitiator, accelerator, stabilizer, sodium fluoride, silane and pigments.  
\*Contains a small amount of Al<sub>2</sub>O<sub>3</sub>

**Description:** Same as above.

**Hazardous components:** This product contains no hazardous components as defined in OSHA Hazard Communication Standard C29 CFR 1910.12007

### **3. Hazard Identification**

**Risk identification:** Not available.

**Special risks for human beings and environment:** People known to be allergic to methacrylate should avoid use of this material.

**Classification:** Classification corresponds to actual EEC guidelines.

### **4. First Aid Measures**

**General information:**

**After skin contact:** Wash with plenty of water and soap.

**After eye contact:** Rinse with water and consult a physician.

**After swallowing:** Seek medical attention immediately.

### **5. Fire Fighting Measures**

**Extinguishing media:** CO<sub>2</sub>, water.

**Protective equipment:** Unknown.

### **6. Accidental Release Measures**

**Personal precautions:** Protective gloves, goggles and others are recommended.

**Environmental precautions:** Unknown.

**Methods for cleaning up:** Wipe up with absorbent material and place in waste container for disposal.

**Additional information:** Unknown.

### **7. Handling and Storage**

**Storage:** Store at ambient temperature. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

### **8. Exposure Controls/Personal Protection**

**Personal protective equipment:** Protective gloves, goggles are recommended.

**General measure of protection and hygiene:** Normal hygienic measures.

**Respiration:** Not applicable.

**Hands:** Protective gloves.

**Eyes:** Safety goggles recommended.

## **9. Physical and Chemical Properties**

Appearance: Viscous paste  
 Form: Untinted or tinted.  
 Color: Slight ester-like odor.  
 Odor:

### Information on change in the physical state

Melting point/melting range: Not applicable.  
 Boiling point/boiling range: Not applicable.  
 Flash point: Not applicable.  
 Autoignition temperature: Not applicable.  
 Danger of explosion: Not likely.  
 Density: c.a. ~1.9 g/cm<sup>3</sup>  
 Vapor pressure: Not applicable.  
 Viscosity: Paste.  
 pH: Not applicable.  
 Solubility in/miscibility with water: Not applicable.  
 Content of solvents: Not applicable.  
 Organic solvents: Not applicable.  
 Water: Not applicable.  
 Content of solids: >70%

## **10. Stability and Reactivity**

Incompatibility with other substances: Stable. Avoid heat, direct sunlight.  
 Avoid peroxides, strong oxidizers, reducing agents and free radical initiators.  
 Hazardous decomposition products: Not applicable.

## **11. Toxicological Information**

Allergic reaction to methacrylate by exposure to product is possible.  
 Acute toxicity: Not available.  
 Primary irritation: Yes.  
 Skin Contact: Not available.  
 Skin absorption: Irritating.  
 Eye: Not volatile.  
 Inhalation: Possibly toxic when swallowed.  
 Ingestion: Not available.  
 Sensitization of product: Non-mutagenic.  
 Additional Toxicological information:

## **12. Ecological Information**

General information: Not available.  
 Classification of water endangment: Not available.

## **13. Disposal Considerations**

Product Recommendation: Dispose in accordance with local, state, and federal regulations.  
 Disposal key number:  
 Uncleaned packaging:  
 Recommendation:

## **14. Transport Information**

RID/ADR: Not regulated.

## **15. Regulatory information**

Classification according to EEC guidelines: No classification necessary to actual EEC guidelines.  
 National Prescriptions: Not available.  
 Classification according to VbF: Not applicable.

## **16. Other Information**

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** Build-It™ Light Cure – Core Material

**Product Use:** Dental product: Post and Core

**Manufacturer:** Kerr Corporation  
1717 W. Collins Ave.  
Orange, CA 92867-5422  
U.S.A.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**Chemical Emergency Phone Number** (Chemical Spills, Leaks, Fire, Exposure or Accident only):  
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

**SDS Date of Preparation/Revision:** June 5, 2019

### Section 2. Hazards Identification

**GHS Classification for Base and Catalyst:**

Skin Sensitization Category 1

**Label Elements:**

Warning!



**Hazard Phrases**

May cause an allergic skin reaction.

**Precautionary Phrases:**

Avoid breathing dust and vapor.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection, face protection.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical attention.

Dispose of contents and container in accordance with local and national regulations.

### Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	1-5%
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-	72869-86-4	1-5%

Component	CAS No.	Amount
dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate		

## Section 4. First Aid Measures

**Inhalation:** Remove victim to fresh air. Get medical attention if symptoms occur.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

**Eye Contact:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:** May cause an allergic skin reaction. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Indication of immediate medical attention and special treatment, if needed:** Immediate medical attention is not required.

## Section 5. Fire Fighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, and metal oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

## Section 6: Accidental Release Measures

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Do not breathe dust or vapors.

**Environmental Precautions:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Do not breathe vapors. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store between 20°C to 25°C (68°F to 77°F). Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## Section 8. Exposure Controls / Personal Protection

### Exposure Limits

Chemical	Exposure Limit
2,2'-ethylenedioxydiethyl dimethacrylate	None Established
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	None Established

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are exceeded, an approved dust/mist respirator or supplied air respirator should be used. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

**Hygiene measures:** Suitable eye and skin washing facilities should be available in the work area.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Paste of various colors	<b>Odor:</b>	Ester
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting/Freezing</b>	Not available	<b>Boiling</b>	Not available

<b>Point:</b>		<b>Point/Range:</b>	
<b>Flash Point:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not available UEL: Not available
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	1.9	<b>Solubilities:</b>	Insoluble in water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

## Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid heat and direct sunlight.

**Incompatible Materials:** Oxidizing materials, reducing materials, peroxides, and free radical initiators.

**Hazardous decomposition products:** None if stored normally.

## Section 11. Toxicological Information

### Potential Health Effects:

**Inhalation:** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin Contact:** May cause an allergic skin reaction.

**Eye Contact:** None known.

**Ingestion:** None known.

**Chronic Hazards:** None known.

**Skin Sensitization:** No adverse effects expected. This product is classified as Grade I – weak sensitizer in Kligman test.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory sensitization.

**Germ Cell Mutagenicity:** None of the components are mutagenic.

**Carcinogen:** None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity (Single Exposure):** Single exposure to this product may cause respiratory tract irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** No data available.

**Aspiration Toxicity:** Not an aspiration hazard.

**Acute Toxicity Values:**

2,2'-ethylenedioxydiethyl dimethacrylate: LD50 Oral rat: 10837 mg/kg

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate:

LD50 Oral rat: >5000 mg/kg

## Section 12. Ecological Information

**Toxicity:**

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate:

72 hr EC50 *Desmodesmus subspicatus* >0.6 mg/L; 48 hr EC50 *Daphnia magna* >1.2 mg/L

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:**

2,2'-ethylenedioxydiethyl dimethacrylate: log  $P_{ow}$  1.88, potential of bioaccumulative is low.

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate:

log  $P_{ow}$  3, potential of bioaccumulative is low.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No data available.

## Section 13. Disposal Considerations

**Disposal:** For unused solution, flush thoroughly with large quantities of water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Rinse empty container thoroughly with water and discard clean, empty container as general trash or offer for recycling, if available.

## Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>US DOT</b>	None	Not Regulated	None	None	None
<b>Canada TDG</b>	None	Not Regulated	None	None	None
<b>IMDG</b>	None	Not Regulated	None	None	None
<b>IATA/ICAO</b>	None	Not Regulated	None	None	None



## Section 15. Regulatory Information

### U.S. Federal Regulations:

**EPA SARA 311/312 Hazard Classification:** Refer to Section 2 for OSHA Hazard Classification.

**EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):** None.

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

### Canadian Regulations:

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**National Pollutant Release Inventory (NPRI):** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

### International Inventories

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

**European Union:** All the components in this product are listed on the EINECS inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**New Zealand:** All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

## Section 16. Other Information

NFPA Rating: Fire: 0

Health: 2

Instability: 0

**Effective Date:** June 5, 2019

**Supersedes Date:** November 13, 2014

**Revision Summary:** All Sections – New SDS format

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