



## MATERIAL SAFETY DATA SHEET

**M.S.D.S.#00075**

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 July 1, 2005

### 1. Chemical Product and Contact Information

**Product Name:** Build-It® FR™ Core Build-up Material  
**Material Safety Sheet Number:** 00075  
**Date of Issue:** 01/21/00  
**Revision Date:** 07/01/05  
**Company Identification:** Pentron Clinical Technologies, LLC  
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**Emergency Information Chemtrec:** 800-424-9300  
**Chemtrec International:** 202-483-7616

### 2. Composition/Information on Ingredients

**Chemical characteristics:** Mixture of BISGMA, UDMA, HDDMA, silane treated bariumborosilicate glass fillers\*, chopped glass fibers, pigments with initiators, stabilizers and UV absorber.  
**Description:** Visible light cured and self-cured resin composite.  
**Hazardous components:**

Element	CAS #	Exposure Limit mg/m <sup>3</sup>	
		OSHA PEL	ACGIH TLV
BisGMA	1565-94-2	N/E	N/E
UDMA	74389-53-0	N/E	N/E
HDDMA	6606-59-3	N/E	N/E
Silane Treated Barium Boro-alumino Silicate Glass	N/A	N/E	N/E
Silane Treated Chopped Glass Fibers	N/A	N/E	N/E
Pigments	Various	Unknown	Unknown
UV Absorbers	Unknown	Unknown	Unknown
Polymerization System	Various	N/E	N/E

\*contains small amount of Alumina

### 3. Hazard Identification

**Risk identification:** None known.  
**Special risks for human beings and environment:** None known.  
**Classification:** Not Hazardous. Those people known to be allergic to methacrylate resins should avoid the use of this product.

### 4. First Aid Measures

**General information:** Unknown.  
**After skin contact:** Wash with plenty of water and soap.  
**After eye contact:** Rinse with plenty of water and contact an ophthalmologist.  
**After swallowing:** Seek medical advice immediately.

### 5. Fire Fighting Measures

**Extinguishing media:** CO<sub>2</sub>, water, dry chemical.  
**Protective equipment:** Unknown.

### 6. Accidental Release Measures

**Personal precautions:** Unknown.  
**Environmental precautions:** Absorb with inert material. Collect in closed containers and dispose of as recommended. Avoid skin contact, wear protective equipment.  
**Methods for cleaning up:** Dispose according to Federal, State, and local regulations.  
**Additional information:** Unknown.

### 7. Handling and Storage

Refrigeration is recommended to preserve shelf life. Keep away from direct sunlight, initiators, oxidizing, and/or reducing agents. Over time, spontaneous polymerization may occur.



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### 8. Exposure Controls/Personal Protection

Personal protective equipment:	Protective gloves, and goggles are recommended.
General measure of protection and hygiene:	Normal hygienic measures.
Respiration:	Not necessary.
Hands:	Protective gloves.
Eyes:	OSHA approved goggles.

### 9. Physical and Chemical Properties

Appearance:	Form:	Paste
	Color:	Shaded base part, white catalyst part.
	Odor:	Ester-like.

Information on change in the physical state

Melting point/melting range:	Not applicable.
Boiling point/boiling range:	Not applicable.
Flash point:	Unknown.
Autoignition temperature:	Unknown.
Danger of explosion:	Unlikely.
Density:	1.7 g/cm <sup>3</sup>
Vapor pressure:	Not applicable.
Viscosity:	Not applicable.
pH:	Not applicable.
Solubility in/miscibility with:	None.
Water:	None.
Content of solvents:	None.
Organic solvents:	None.
Water:	None.
Content of solids:	≥65%

### 10. Stability and Reactivity

Incompatibility with other substances:	Stable. Avoid bringing peroxide and excessive heat to base part and avoid bringing amine and excessive heat to catalyst part. Incompatible with ZOE.
Hazardous decomposition products:	Unknown.

### 11. Toxicological Information

Carcinogenicity:	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
TLV:	Unknown.
Primary Routes of entry:	Inhalation, skin, and eyes.

### 12. Ecological Information

General information:	Unknown.
Classification of water endangerment:	Unknown.

### 13. Disposal Considerations

Disposal consideration:	Dispose in accordance with Federal, State, and local regulations.
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### 14. Transport Information

Not classified as dangerous goods.

### 15. Regulatory Information

Classification according to EEC guidelines:	Unknown.
National Prescriptions:	Unknown.
Classification according to VbF:	Unknown.

### 16. Other Information

Revision Summary:	Update Section 2: Hazardous components to current ISO specifications.
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