

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: 05/12/06

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 ³	
		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: CO₂, 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 required store at 36°-55°F (2°-13°C). Keep away from direct sunlight, initiators, oxidizing, and/or reducing agents. Over time, spontaneous polymerization may occur.

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 ³
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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