

1. Chemical Product and Contact Information
Product Name: Fusio™ Liquid Dentin

Material Safety Sheet Number: 00339
Date of Issue: 10/31/08
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Company Identification: Pentron Clinical
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2. Composition/Information on Ingredients

Chemical characteristics: Mixture of UDMA, TEGDMA, HEMA, & 4-MET resins, silane-treated bariumborosilicate glasses, silica with initiators, stabilizers and UV absorber, organic and/or inorganic pigments, opacifiers.
 *contains a small amount of aluminum oxide.

Element	CAS #	Exposure Limit mg/m ³	
		OSHA PEL	ACGIH TLV
UDMA	74389-53-0	N/E	N/E
TEGDMA	109-10-6	N/E	N/E
HEMA	868-77-9	N/E	N/E
4-MET	N/A	N/E	N/E
Silane treated barium glass	N/E	N/E	N/E
Silica (amorphous)	69012-64-2	N/E	2R
Minor additives	Various	N/A	N/A
Photo Curing System	Various	N/E	N/E

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

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

Handling: Practice good hygienic measures.
Storage: Refrigeration required. Store at 2°–8°C, 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, 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.
	Odor:	Ester-like.

Information on change in the physical state

Melting point/melting range:	Unknown.
Boiling point/boiling range:	Unknown.
Flash point:	Unknown.
Autoignition temperature:	Unknown.
Danger of explosion:	Unlikely.
Density:	1.8 gm/cm ³
Vapor pressure:	Unknown.
Viscosity:	Unknown.
pH:	3-4 in uncured state in water.
Solubility in/miscibility with Water:	Slightly.
Content of solvents:	None.
Organic solvents:	None.
Content of solids:	≥65%

10. Stability and Reactivity

Incompatibility with other substances:	Stable. Avoid exposure to peroxide and excessive heat.
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

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