

1. Chemical Product and Contact Information

Product Name: Bond-1® SF Solvent-Free SE Adhesive

Material Safety Sheet Number: 00340
 Date of Issue: 12/01/08
 Revision Date: 09/25/09

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: 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:	Gel.
	Color:	Slightly yellow.
	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:		1.5 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:		≤50% by weight

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

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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