



MATERIAL SAFETY DATA SHEET

M.S.D.S. #00203

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February 3, 2006

1. Chemical Product and Contact Information

Product Name: Simile® nano-hybrid composite
Material Safety Sheet Number: 00203
Date of Issue: 02/10/00
Revision Date: 02/03/06
Company Identification: Pentron Clinical Technologies, LLC
68 North Plains Industrial Road
Wallingford, CT U.S.A. 06492
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 mixture of difunctional methacrylates of PCBisGMA, BisGMA, UDMA and HDDMA, barium boro-silicate glass*, nano-particulated silica, zirconium silicate*, photoinitiator accelerator, stabilizer, silane and pigments.

Description: *contains a small amount of Al₂O₃

Hazardous components: Same as above.

Element	CAS #	Exposure Limit mg/m ³	
		OSHA PEL	ACGIH TLV
PCBisGMA	N /A	N/E	N/E
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 Nano-particulated Silica	112965-52-5	Unknown	N/E
Zirconium Silicate	N /A	N/E	N/E
Pigments	Various	Unknown	Unknown
Photocuring system	Various	N/E	N/E

3. Hazard Identification

Risk identification: None known.

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 advice immediately.

5. Fire Fighting Measures

Extinguishing media: CO₂, 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.
Additional information: Unknown.

7. Handling and Storage

Storage: Store at room temperature (65°F-75°F, 18°C-24°C). Protect from light source. Do not store in high heat areas.
Store away from foodstuffs.



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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: OSHA approved goggles.

9. Physical and Chemical Properties

Appearance: Form: Viscous paste
Color: Tooth colored.
Odor: Slight ester-like 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: Unknown.
Danger of explosion: Not likely.
Density: c.a. 1.8 - 1.9 g/cm³
Vapor pressure: Not applicable.
Viscosity: Paste.
pH: Not applicable.
Solubility in/miscibility with water: None.
Content of solvents: None.
Organic solvents: None.
Water: None.
Content of solids: >70%

10. Stability and Reactivity

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

11. Toxicological Information

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

12. Ecological Information

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

13. Disposal Considerations

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

14. Transport Information

RID/ADR: Not a hazardous material.

15. Regulatory information

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

16. Other Information

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believe to be correct as of the date hereof. Pentron Clinical Technologies, LLC 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 Technologies, LLC be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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