

1. Chemical Product and Contact Information

Product Name: Artiste™ Nano Composite
Material Safety Sheet Number: 00325
Date of Issue: 01/19/07
Revision Date:
Company Identification: Pentron Clinical Technologies, LLC
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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.
 *contains a small amount of Al₂O₃
Description: Same as above.
Hazardous components: None Known.

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 resins 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 soap and water.
After eye contact: Rinse with water and consult an Ophthalmologist.
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°-75°F, 18°-24°C). Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

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 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/cm ³
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

Stability:	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

Acute toxicity:	Allergic reaction to methacrylate by exposure to product is possible.
Primary irritation:	Not available.
Skin:	Irritating.
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

Disposal consideration:	Dispose in accordance with local, state, and federal regulations.
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14. Transport Information

RID/ADR:	Not a hazardous material.
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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

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