

1. Chemical Product and Contact Information

Product Name: **Artist™ Nano-Hybrid Flowable Composite**

Material Safety Sheet Number: **00304**

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Revision Date:

Company Identification:

Pentron Clinical Technologies, LLC

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203-265-7397

Emergency Information Chemtrec: **800-424-9300**

Chemtrec International: **202-483-7616**

2. Composition/Information on Ingredients

Chemical characteristics: Mixture of epoxy methacrylate, dimethacrylate resins, bariumborosilicate glasses*, zirconium silicate, POSS, silica with initiators, stabilizers and UV absorber.

Hazardous components:

*contains a small amount of aluminum oxide

None known.

Element	CAS #	Exposure Limit mg/m ³	
		OSHA PEL	ACGIH TLV
BAHEMA	N/A	N/E	N/E
EBPADMA	41637-38-1	N/E	N/E
HDDMA	6609-59-3	N/E	N/E
Inorganic Pigments	Various	N/A	N/A
Silane Treated Barium Boro-alumino Silicate Glass	N/A	N/E	N/E
Silica	69012-64-2	N/E	2 R
Polyhedral Oligomeric Silsesquioxane	N/A	N/E	N/E
Zr Silicate	N/A	N/E	N/E
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: Unknown. Those people known to be allergic to methacrylate resins should avoid the use of this product.

4. First Aid Measures

After skin contact: Immediately wash with soap and water, consult a physician if irritation occurs.

After eye contact: Immediately flush eyes with plenty of water for 15 minutes with eyelids retracted. Consult an ophthalmologist if needed.

After swallowing: Consult a physician immediately. Rinse oral cavity with water and exude or expectorate. Induce vomiting. Seek fresh air.

5. Fire Fighting Measures

Extinguishing media: Chemical foam, carbon dioxide or dry chemical.

Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions: Protective gloves, goggles are recommended.

Environmental precautions: Unknown.

Methods for cleaning up: Absorb with inert material. Collect in closed containers and dispose in accordance with Federal, State, and local regulations. Avoid skin contact, wear protective equipment.

Additional information: Unknown.

7. Handling and Storage

Storage: Store material below 75°F, away from direct sunlight, initiators, oxidizing, and/or reducing agents. Over time, spontaneous polymerization may occur.

Handling: Practice generally accepted, normal hygienic measures.

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:	Viscous gel.
	Color:	Various shades.
	Odor:	Esther-like.

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:	Not applicable.
Danger of explosion:	None known.
Density:	1.7g/cm ³
Vapor pressure:	Unknown.
Viscosity:	Not applicable.
pH:	Not applicable.
Solubility in/miscibility with Water:	None.
Content of solvents:	None.
Organic solvents:	None.
Water:	None.
Content of solids:	≥64%

10. Stability and Reactivity

Incompatibility with other substances:	Stable. Keep away from light, heat, strong oxides, and reducing agents. Avoid using materials that contain eugenol or clove oil as they may inhibit the polymerization of this composite. Contact with cationic mouth rinses, plaque disclosing agents and chlorhexidine may result in discoloration.
Hazardous decomposition products:	Unknown.

11. Toxicological Information

Carcinogenicity:	NTP: not listed. IARC Monographs: not listed. OSHA Regulated: not listed.
TLV:	Unknown.
Primary routes of entry:	Inhalation/ingestion, 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:

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