

BioMers Translucent Archwire Material Safety Data Sheet

1. Chemical Product and Contact Information

Product Name: BioMers Translucent Archwire

Material Safety Data Sheet Number: 002

Date of Issue: Not applicable (draft status)

Revision: A

Company Identification: BioMers Products, LLC
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2. Composition/Information on Ingredients

Chemical characteristics: Mixture of cured copolymers BIS-EMA, TEGDMA, glass fibers, and Di-p-Xylylene.

Description: Glass fiber reinforced composite.

Hazardous components: None known in cured solid form.

The detailed material composition for all Translucent Archwire products is stated below.

- Polymer Resin

Ingredient	Concentration Range (%)	CAS Number
Ethoxylated Bisphenol A dimethacrylate	15-40	56744-60-6
Glass frit	40-70	65997-18-4
Triethyleneglycol dimethacrylate	8-30	109-16-0

- Glass Fiber

Ingredient	Weight (%)	CAS Number
Fiberglass Continuous Filament	98 -100	65997-17-3
Size ⁺	0 - 2	Mixture

⁺Composition for size

- Size

California Proposition 65: Chemical	Concentration - Parts Per Billion (PPB) Maximum	CAS Number
1, 4-Dioxane	< 5.0	123-91-1
Acetaldehyde	< 5.0	75-07-0
Ethylene Oxide	< 5.0	75-21-8
Formaldehyde	< 12.1	50-00-0

- Polymer coating

Ingredient	Weight (%)	CAS Number
Di-p-Xylylene	100	1633-22-3

3. Hazard Identification

Risk Identification: None known.

Special risks for human beings

and environment:

None in sold wire form. Breathing, skin and eye contact of dust and fibers originating from device may cause short term irritation and itching of the mouth, nose, throat, skin and eyes. If swallowed may cause short term mechanical irritation of the stomach and intestines. There is no known chronic health effects connected with long term use or contact with this device.

Classification: Unknown.

First Aid Measures

General information:

After skin contact: None known.

After eye contact: None known.

Inhalation of dust: Move the person to fresh air and seek medical attention if irritation persists.

After swallowing: If swallowed whole consult a physician immediately. Expectoration or induction of vomiting may be required.

4. Fire Fighting Measures

Extinguishing media:	Water, chemical foam, carbon dioxide or dry chemical.
Protective equipment:	Wear self-contained breathing apparatus and protective clothing to prevent

5. Accidental Release Measures

Personal precautions:	Follow common hygienic measures.
Environmental precautions:	Do not breathe in dust. Absorb dust with inert material; collect in closed containers and dispose of as recommended. Avoid skin contact. Wear protective gloves.
Methods for cleaning up:	Incineration according to Federal, State, and local regulations.
Additional information:	Machining or grinding must be done in local ventilation.

6. Handling and Storage

Handling:	Always handle with care.
Handling procedures:	Keep container closed to prevent the material from contamination.
Recommendation for fire and explosion protection:	Not applicable.

7. Exposure Control/Personal Protection

Additional information for technical plants:

Components with limits of values to be supervised at the workplace:

The product contains no relevant quantities of components with limits of values to be supervised at the workplace.

Additional information:

Personal protective equipment:	Protective gloves are recommended when handling a large amount of dust derived from the device.
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General measure of protection and

hygiene:	Follow health care personnel treatment procedures as commonly practiced in the dental health care industry.
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Respiration:	Not applicable.
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Hands: Protective gloves.
Eyes: Not applicable.

8. Physical and Chemical Properties

Appearance: Form: Cured fiber-reinforced wire.
Color: Translucent.
Odor: None.
Information on change in the physical state
Melting point/melting range: Not applicable.
Boiling point/boiling range: Not applicable.
Flash point: None known.
Autoignition temperature: Not applicable.
Danger of explosion: None known.
Density: Not applicable.
Vapor pressure: Not applicable.
Viscosity: Not applicable.
pH: Not applicable.
Solubility in/miscibility with water: None.
Content of solvents: None.
Organic solvents: None.
Water: None.
Content of solids: 100%

9. Stability and Reactivity

Incompatibility with other substances: Stable in air and water.
Hazardous decomposition products: Hydrocarbons, oxides of sulfur.

10. Toxicological Information

Carcinogenicity: NTP: not listed
IARC Monographs: not listed
OSHA Regulated: not listed

TLV:

Primary routes of entry: Inhalation/ingestion

11. Ecological Information

General information: Unknown.

Classification of water endangerment: Unknown.

12. Disposal Considerations

Disposal consideration: Incineration in accordance with Federal, State and local regulations.

13. Transport Information

Not classified as dangerous goods in consumer quantity.

14. Regulatory Information

Classification according to EEC guidelines: Unknown.

National prescriptions: Unknown.

Classification according to VbF: Unknown.

15. Other Information

Revision Summary: No revisions have been made.

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