

## SAFETY DATA SHEET (SDS)

In accordance with General Product Safety Directive (GPSD) - 2001/95/EC

DOCUMENT NO.: DuraPrint\_MASTER\_MATRIX\_001

DATE OF EFFECT: 01.01.2025

REVISION NO./DATE: 00/01.01.2025

### Section 1: Product and Company Identification

- **Product Name:** DuraPrint MASTER MATRIX
- **Intended Use:** UV photosensitive resin for 3D printing of transparent dental molds for flexible materials.
- **Manufacturer:** Erk Dental Medikal Tıbbi Malz.Tur.San. ve Tic. Ltd. Şti.
- **Address:** Tuna Mahallesi Sanat Caddesi No:17 D:211 Bornova 35090 İzmir Türkiye
- **Emergency Phone:** +90 232 458 20 55
- **Email:** info@erkdental.com

### Section 2: Hazards Identification

- **GHS Classification:**
  - Acute Toxicity (Oral): Category 4
  - Skin Sensitization: Category 1
  - Serious Eye Damage: Category 1
  - Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Tract Irritation)
  - Hazardous to the Aquatic Environment (Acute): Category 1
  - Hazardous to the Aquatic Environment (Chronic): Category 2
- **Label Elements:**
  - **Signal Word:** Danger
  - **Hazard Statements:**



- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H400: Very toxic to aquatic life.

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- H411: Toxic to aquatic life with long-lasting effects.
- **Precautionary Statements:**
  - P264: Wash thoroughly after handling.
  - P280: Wear protective gloves, protective clothing, and eye/face protection.
  - P271: Use only outdoors or in a well-ventilated area.
  - P273: Avoid release to the environment.
  - P301+P317: If swallowed, get medical help.
  - P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Section 3: Composition/Information on Ingredients

Ingredient	Concentration	CAS No.	EC No.
Aliphatic urethane acrylate	30-55%	68987-79-1	848-035-8
Isobornyl methacrylate	15-30%	7534-94-3	231-403-1
Urethane dimethacrylate	5-20%	72869-86-4	276-957-5
Bis(4-methylphenyl)phosphorylmethanone	1-5%	270586-78-2	884-585-5

### Section 4: First-Aid Measures

- **Skin Contact:** Wash with plenty of water. If irritation or rash occurs, seek medical attention.
- **Eye Contact:** Rinse immediately with water for at least 15 minutes. Remove contact lenses if present. Seek immediate medical attention.
- **Inhalation:** Move the affected person to fresh air. If breathing is difficult, seek medical help.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

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### Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, water spray, carbon dioxide, or foam.
  - **Specific Hazards:** May produce hazardous decomposition products under fire conditions (e.g., carbon oxides, nitrogen oxides, phosphorus oxides).
  - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.
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### Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment (PPE). Ensure adequate ventilation. Avoid inhalation and skin contact.
  - **Environmental Precautions:** Prevent further leakage. Avoid entry into drains and waterways.
  - **Methods for Cleanup:** Absorb with inert material (e.g., sand) and place in a container for disposal. Dispose of according to local regulations.
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### Section 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid contact with skin, eyes, and clothing. Do not breathe vapors.
  - **Storage:** Store in a cool, dry, well-ventilated place. Keep containers tightly closed and away from heat or ignition sources.
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### Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure proper ventilation.
- **PPE:**
  - Eye Protection: Chemical safety goggles.

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- Skin Protection: Protective gloves and clothing.
- Respiratory Protection: Use an approved respirator if necessary.

### Section 9: Physical and Chemical Properties

Property	Value
Physical State	Liquid
Color	Transparent
Odor	Weak odor
pH	6.5
Boiling Point	>146°C
Flash Point (Closed Cup)	>96°C
Density	1.15 g/cm <sup>3</sup>
Solubility	Immiscible in water

### Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, phosphorus oxides.

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### Section 11: Toxicological Information

- **Acute Toxicity:** Harmful if swallowed (LD50: 1500 mg/kg in rats).
  - **Eye Damage/Irritation:** Causes serious eye damage.
  - **Skin Sensitization:** May cause allergic skin reactions.
  - **Respiratory Effects:** May cause respiratory irritation.
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### Section 12: Ecological Information

- **Aquatic Toxicity:** Very toxic to aquatic life.
  - **Persistence and Degradability:** No data available.
  - **Bioaccumulative Potential:** No data available.
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### Section 13: Disposal Considerations

Dispose of contents and container in accordance with local, regional, national, and international regulations. Do not release into sewers or waterways.

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### Section 14: Transport Information

- **UN Number:** Not applicable
  - **Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s.
  - **Hazard Class:** Not applicable
  - **Packing Group:** Not applicable
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### **Section 15: Regulatory Information**

- Compliant with GPSD, REACH, and CLP regulations.
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### **Section 16: Other Information**

This SDS is compiled based on available information and is intended as a guide for safe handling and use. Users must assess suitability under their specific conditions and take responsibility for compliance with applicable regulations.