MD-Series (MD600 / MD800)

Safety Data Sheet (SDS) — per OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Section 1: Identification

Product Name: MD-Series (MD600 / MD800)
Identified Uses: Resin for 3D printing of dental models.

Supplier: Resinify Technology LLC, 22350 W. Warren Ave., Detroit, MI 48239 · (810) 888-7373

Emergency Contacts: CHEMTREC (Transportation): (800) 424-9300 (24/7) · Rocky Mountain Poison Center (Medical): (866) 767-5089 (24/7)

Section 2: Hazards Identification

GHS Classification

- Tricyclodecanedimethanol Diacrylate: Skin Corrosion/Irritation Cat. 2; Serious Eye Damage/Irritation Cat. 2A
- Acryloyl Morpholine: Skin Corrosion/Irritation Cat. 2; Serious Eye Damage/Irritation Cat. 2A
- Monomer Blend (CN985b88): Skin Corrosion/Irritation Cat. 2; Serious Eye Damage/Irritation Cat. 2A; Skin Sensitization Cat. 1
- Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide: Reproductive Toxicity Cat. 2 (H361)



Signal Word: Warning

Hazard Statements

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H317: May cause an allergic skin reaction
- H361: Suspected of damaging fertility or the unborn child

Precautionary Statements

- P201/P202: Obtain special instructions before use; do not handle until all safety precautions are understood.
- P264: Wash skin thoroughly after handling. P280: Wear protective gloves/clothing/eye/face protection.
- P302+P352: IF ON SKIN: wash with plenty of water. P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present.
- P308+P313: IF exposed or concerned, get medical advice/attention. P362+P364: take off contaminated clothing and wash before reuse.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients

Ingredient	CAS No.	% by Weight
Tricyclodecanedimethanol Diacrylate	Trade Secret	75%–80%
Acryloyl Morpholine	5117-12-4	15%–10%
Monomer Blend	Trade Secret	15%–10%
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	Trade Secret	<1%

Section 4: First-Aid Measures

- **Inhalation:** Remove from exposure to fresh air, restore breathing using oxygen if needed. Keep warm and quiet. Immediately notify a physician.
- **Skin Contact:** Wash affected area with soap and large amounts of water. Remove contaminated clothing. Consult a physician if irritation persists.
- **Eye Contact:** Immediately flush eyes with water for 15 minutes, holding eyelids open for complete irrigation. Remove contact lenses if worn. Take to a physician immediately.
- **Ingestion:** Do NOT induce vomiting. Have victim drink 8–10 ounces of water to dilute material in the stomach. Never give anything by mouth to an unconscious person. Consult a physician or poison control center.

Section 5: Fire-Fighting Measures

- Flash Point: 67°C (153°F) TCC · Auto-Ignition Temp: 400°C (752°F)
- Suitable Extinguishing Media: Foam, CO_2, Dry Chemical, Water-fog. Unsuitable: do not use waterjet.
- Dangerous fire hazard when exposed to heat or flame; heat can cause polymerization; closed containers may explode when exposed to extreme heat.
- Firefighters: wear self-contained breathing apparatus and turnout gear; isolate from all sources of ignition.
- Product freezes at 15°C/59°F; improper thawing can result in violent polymerization.

Section 6: Accidental Release Measures

- This material is corrosive; eliminate ignition sources in the vicinity of the spill. Evacuate nonessential personnel.
- Environmental precautions: keep out of water sources and sewers; do not flush into surface water or sanitary sewer.
- Containment/cleanup: use explosion-proof equipment; use non-flammable absorbent (clay or silica) for smaller spills; use foam to minimize vapors on larger spills.

Section 7: Handling and Storage

- This material is corrosive. Avoid prolonged or repeated contact with skin, eyes, and clothing. Use with adequate ventilation.
- Use non-sparking tools to open or close containers. Do not take internally.

- Store in original container, tightly closed, away from sources of heat and ignition. Protect from freezing. Store in a cool, dry, well-ventilated area away from sunlight.
- Maintain contact with atmosphere of 5–21% oxygen; do not use an inert atmosphere as a blanket. Storage stability of one year expected under proper conditions.

Section 8: Exposure Controls / Personal Protection

- Engineering Controls: ensure adequate ventilation, especially in confined areas. Provide eyewash stations and safety showers.
- Eye Protection: safety goggles or face shield.
- Skin Protection: suitable protective clothing and gloves (e.g., neoprene, nitrile).
- Respiratory Protection: NIOSH/MSHA-approved respiratory protection if exposure limits are exceeded or irritation is experienced.

Section 9: Physical and Chemical Properties

- Physical State: Liquid · Odor: Mild · Flash Point: 67°C (153°F) TCC
- Solubility: Insoluble in water · Auto-Ignition Temp.: 400°C (752°F)

Section 10: Stability and Reactivity

- Reactivity: not reactive under normal conditions. Stability: stable under recommended storage conditions.
- Hazardous Reactions: hazardous polymerization may occur. Conditions to Avoid: heat, flames, sparks, other ignition sources.
- Incompatible Materials: strong oxidizing agents, acids, bases, and amines.
- Hazardous Decomposition Products: carbon oxides, nitrogen oxides, and other potentially toxic fumes.

Section 11: Toxicological Information

- Acute Toxicity: not determined for the mixture.
- Skin Corrosion/Irritation: causes skin irritation. Serious Eye Damage/Irritation: causes serious eye irritation.
- Respiratory or Skin Sensitization: may cause an allergic skin reaction.
- Reproductive Toxicity: suspected of damaging fertility or the unborn child.

Section 12: Ecological Information

- Toxicity, Persistence/Degradability, Bioaccumulative Potential, Mobility in Soil: no information available.
- Other Adverse Effects: no known significant effects or critical hazards.

Section 13: Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations. Do not discharge into drains or the environment.

- Contaminated packaging: dispose of as unused product; do not reuse empty containers.

Section 14: Transport Information

- US DOT: UN 3082, Environmentally hazardous substance, liquid, n.o.s., Class 9, Packing Group III, Marine Pollutant: Yes.
- IMDG: UN 3082, same proper shipping name, Class 9, Packing Group III, Marine Pollutant: Yes, Flash Point >201°F (94°C).

Section 15: Regulatory Information

- TSCA: components are on the TSCA Inventory. Canadian DSL: components listed on DSL or NDSL.
- SARA Title III Section 311/312 Hazard Categories: Acute Health Hazard, Reactivity Hazard.
- SARA Title III Section 313: no components exceed De Minimis reporting thresholds.

Section 16: Other Information

- Prepared by Resinify Technology LLC Compliance Team.

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End of Safety Data Sheet