Resinify CastPro

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

Document ID: RES-SDS-DENT-CASTPRO-Rev.A **Format:** GHS / OSHA HazCom 16-Section

Section 1: Identification

Product Name: Resinify CastPro
Identified Uses: 3D printing light-curing resin for dental casting and modeling.

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

- Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide: Skin Irritation Cat. 2 (H315); Eye Irritation Cat. 2 (H319); Skin Sensitization Cat. 1 (H317)



Signal Word: Warning

Hazard Statements

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation

Precautionary Statements

- P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P501: Dispose of contents/container to industrial incineration plant.

Section 3: Composition / Information on Ingredients

Ingredient	CAS No.	% by Weight
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	0.1–5%
Methacrylated monomer	N/A	5–20%
Wax	N/A	5–30%

Methacrylated oligomer	N/A	50–80%

Section 4: First-Aid Measures

- **Inhalation:** In case of inhalation of decomposition products, move affected person to fresh air and keep still. Administer artificial respiration if breathing is irregular or stopped.
- **Skin Contact:** Wash immediately with water and soap.
- **Eye Contact:** Flush immediately with plenty of flowing water for 10–15 minutes holding eyelids apart; consult an ophthalmologist.
- **Ingestion:** Drink water immediately. Induce vomiting only if the affected person is not unconscious.

Section 5: Fire-Fighting Measures

- The product itself is not combustible. In case of fire and/or explosion, do not breathe fumes.
- Suitable Extinguishing Media: CO_2, dry extinguishing powder, foam, water spray.
- Firefighters: wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

- Wear personal protective equipment; remove all sources of ignition.
- Do not empty into drains or the aquatic environment.
- Containment: absorbing material (organic, sand). Cleaning up: dilute or neutralize with water.

Section 7: Handling and Storage

- Do not eat, drink, smoke, or sniff when using. Avoid contact with skin, eyes, and clothes. Wash hands before breaks and after work.
- Keep away from sources of heat, sparks, and open flames. Always close containers tightly after use.
- Store in original container in a cool, well-ventilated place; protect against damage and UV-radiation/sunlight. Storage temperature: 10–40°C.
- Materials to avoid: oxidizing agents, strong alkali, alcohols, reducing agents.

Section 8: Exposure Controls / Personal Protection

- Eye/Face Protection: eye glasses with side protection, goggles.
- Skin Protection: disposable gloves, NBR (nitrile rubber).
- Body Protection: lab apron, lab coat.
- Respiratory Protection: not required under normal correct use conditions.

Section 9: Physical and Chemical Properties

- Appearance: Viscous liquid, opaque yellow-orange · pH: 6.8–7.2 (25°C)
- Flash Point: >100°C · Relative Density: 1.08–1.12 g/cm³ (25°C)

- Dynamic Viscosity: 1000–2000 mPa·s (25°C) · Vapour Pressure: 0.0018 mmHg (25°C)

Section 10: Stability and Reactivity

- Stable under storage at normal ambient temperatures. Danger of polymerization under light influence.
- Materials to avoid: oxidizing agents, reducing agents, peroxides, radical formers.
- Thermal decomposition can release irritating gases/vapours including carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

- Acute Dermal Toxicity: >2000 mg/kg (LD50, Rat) · Acute Oral Toxicity: >5000 mg/kg (LD50, Rat)
- Serious Eye Damage/Irritation: slightly irritant (in vitro, Rabbit).
- Skin Sensitization: may cause sensitization by inhalation and skin contact.

Section 12: Ecological Information

- Acute fish toxicity: >180 mg/L (LC50, 48h, Common Carp). Acute crustacea toxicity: >25 mg/L (EC50, 48h, Daphnia magna).
- Not readily biodegradable (per OECD criteria).

Section 13: Disposal Considerations

- Waste disposal per official state regulations. Handle contaminated packaging as the substance itself.
- Waste code: 070208 (Hazardous waste: Yes) — other still bottoms and reaction residues.

Section 14: Transport Information

- Not classified as dangerous goods for land (ADR/RID), sea (IMDG), or air (ICAO-TI/IATA-DGR) transport.

Section 15: Regulatory Information

- Chemical Safety Assessment: Irritant.

Section 16: Other Information

- Full text of H- and EUH-statements: H317 (may cause allergic skin reaction), H413 (may cause long-lasting harmful effects to aquatic life), H315, H319.

Revision Date: 09.04.2024 · **Version:** 1 (rebrand Rev. A)

The information provided in this Safety Data Sheet is based on data considered accurate as of the date of preparation. No warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and safety information contained herein. Resinify Technology LLC assumes no responsibility for injury or damage resulting from inappropriate use of this product.

End of Safety Data Sheet