Resinify CeramixCast

Safety Data Sheet (SDS) — per Regulation (EC) No. 1907/2006 [REACH/CLP]

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Section 1: Identification

Product Name: Resinify CeramixCast
Identified Uses: Light-curing resin for Resinify Technology's family of Computer Aided Modeling Devices; direct investment casting for jewelry (precious metal castings such as rings and pendants) and other high-precision applications.

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

- Health hazards: Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); Skin Sens. 1 (H317).
- Environmental hazards: Aquatic Chronic 3 (H412).
- No information available for acute dermal and inhalative toxicity.




Signal Word: Warning

Hazard Statements

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H412: Harmful to aquatic life with long lasting effects.

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

Methacrylated oligomer	N/A	50–90%
Methacrylated monomer	N/A	5–40%
Phosphine oxide	N/A	1–2%

Section 4: First-Aid Measures

- **General:** Change contaminated, saturated clothing.
- **Inhalation:** In case of inhalation of decomposition products, move affected person into fresh air and keep still. If breathing is irregular or stopped, administer artificial respiration.
- **Skin Contact:** Wash immediately with water and soap.
- **Eye Contact:** In case of contact with eyes, flush immediately with plenty of flowing water for 10–15 minutes, holding eyelids apart, and consult an ophthalmologist.
- **Ingestion:** If swallowed, immediately drink water. Induce vomiting only when the affected person is not unconscious.
- **Symptoms:** No symptoms known up to now. **Immediate medical attention:** No data available.

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: Carbon dioxide (CO_2), dry extinguishing powder, foam, water spray.
- Special hazards arising from the substance or mixture: No data available.
- Firefighters: Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

- Non-emergency personnel: wear personal protective equipment; remove all sources of ignition.
- Emergency responders: use appropriate respiratory protection.
- Environmental precautions: 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

- General occupational hygiene: do not eat, drink, smoke, or sniff when using. Avoid contact with skin, eyes, and clothes. Remove contaminated, saturated clothing; wash before re-use. Wash hands before breaks and after work. Provide an eye shower and label its location conspicuously.
- Avoid skin contact and eye contact. Always close containers tightly after removal of product.
- Measures to prevent fire: keep away from sources of heat (e.g. hot surfaces), sparks, and open flames.
- Materials to avoid in storage: oxidising agents, strong alkali, alcohols, reducing agents. No storage class assigned.
- Keep only in the original container in a cool, well-ventilated place; protect containers against damage and against UV-radiation/sunlight.

- Storage temperature: 10–40°C.

Section 8: Exposure Controls / Personal Protection

- Control Parameters: No data available.
- Eye/Face Protection: eye glasses with side protection, goggles.
- Skin Protection: disposable gloves, suitable material NBR (nitrile rubber).
- Body Protection: lab apron, lab coat.
- Respiratory Protection: with correct and proper use, and under normal conditions, breathing protection is not required.

Section 9: Physical and Chemical Properties

- Appearance: liquid · Colour: yellow-green, dark green, yellow-orange, or orange
- Boiling point: >100°C · Flash point: >100°C · pH: 6.8–7.2 (25°C)
- Vapour pressure: 0.0018 mm Hg (25°C) · Relative density: 1.08–1.12 g/cm³ (25°C)
- Dynamic viscosity: 200–400 mPa·s (25°C) · Solubility: soluble in isopropyl alcohol
- Evaporation rate, melting/freezing point, flammability, explosion limits, auto-ignition temperature, decomposition temperature, water solubility, and partition coefficient: not determined.

Section 10: Stability and Reactivity

- Reactivity: No information available. Chemical Stability: the product is stable under storage at normal ambient temperatures.
- Possibility of Hazardous Reactions: No information available. Conditions to Avoid: in case of light influence, danger of polymerisation.
- Incompatible Materials: reacts with oxidizing agents, reducing agents, peroxides, and radical formers.
- Hazardous Decomposition Products: thermal decomposition can lead to the escape of irritating gases and vapours, including carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

- Acute dermal toxicity (phosphine oxide): >2000 mg/kg (LD50, Rat, OECD 402).
- Acute oral toxicity (phosphine oxide): >2000 mg/kg (LD50, Rat, OECD 401).
- Serious eye damage/irritation: slightly irritant (in vitro eye test, Rabbit).
- Respiratory or skin sensitisation: may cause sensitization by inhalation and skin contact.

Section 12: Ecological Information

- Acute fish toxicity (phosphine oxide): >90 mg/L (LC50, 96h, Danio rerio/zebrafish, OECD 203).
- Acute toxicity to crustacea (phosphine oxide): >1175 mg/L (EC50, 48h, Daphnia magna, OECD 202).
- Toxicity to algae and cyanobacteria (phosphine oxide): ≥260 mg/L (EC50, 72h, Lemna minor).

- Persistence/degradability: no information available. Bioaccumulative potential: not readily biodegradable (per OECD criteria). Mobility in soil: no information available.

Section 13: Disposal Considerations

- Waste Treatment (Directive 2008/98/EC): handle contaminated packaging in the same way as the substance itself.
- Waste code (product and packaging): 070208, other still bottoms and reaction residues. Hazardous waste: Yes.
- Waste disposal according to official state regulations.

Section 14: Transport Information

- Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI/IATA-DGR): UN-No., Proper Shipping Name, Class(es), Packing Group, Environmentally Hazardous status, and special precautions all listed as not applicable.
- Not a hazardous material with respect to land or air transportation regulations.

Section 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation: No data available. 15.2 Chemical Safety Assessment: Irritant.

Section 16: Other Information

- Full text of H- and EUH-statements referenced in Section 3: H317 (may cause allergic skin reaction), H413 (may cause long-lasting harmful effects to aquatic life), H315, H319, H412.

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End of Safety Data Sheet