



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

- **Trade name/designation:** Resinify CastPro

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- **Relevant identified uses:** 3d Printing Light curing resin for casting and Modeling
- **Sector of uses [SU]:** Dental and modeling applications

#### 1.3 Details of the supplier of the safety data sheet

- **Importer/Only Representative:** Resinify Technology LLC
  - **Address:** 22350 W. Warren Ave., Detroit MI 48239, USA
  - **Email:** support@ResiniFyTechnology.com
  - **Telephone:** 1.810.888.7373
  - **Website:** www.ResinifyTechnology.com

#### 1.4 Emergency telephone number

- This number is serviced during office hours.

### SECTION 2: Hazards identification

#### Hazards description

- **Hazard designation:** This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

#### 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 [CLP]:**
  - **Health hazards:**
    - **Skin Irrit. 2**
      - **Hazard statements for health hazards:** H315 - Causes skin irritation.
    - **Eye Irrit. 2**
      - **Hazard statements for health hazards:** H319 - Causes serious eye irritation.
    - **Skin Sens. 1**
      - **Hazard statements for health hazards:** H317 - May cause an allergic skin reaction.

#### 2.2 Label elements

- **Labelling according to Regulation (EC) No. 1272/2008 [CLP]:**
  - **Hazard pictograms:**
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  - **Signal word:** Warning
  - **Hazard statements:**
    - H315: Causes skin irritation.
    - H317: May cause an allergic skin reaction.



- H319: Causes serious eye irritation.
- **Precautionary statements:**
  - **General:** P101: If medical advice is needed, have product container or label at hand.
  - P102: Keep out of reach of children.
  - **Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - **Disposal:** P501: Dispose of contents/container to industrial incineration plant.

#### Product identifiers

- **Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

#### 2.3 Other hazards

- **Other adverse effects:** People who suffer from skin problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes which use this substance. Process vapours can irritate airways, skin, and eyes.

#### SECTION 3: Composition / information on ingredients

##### Remark

- Full text of H- and EUH-statements: see section 16.

Substance	CAS	EC	INDEX	Concentration
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	423-340-5	015-189-00-5	0.1 - 5%
Methacrylated monomer	N/A	N/A	N/A	5 - 20%
Wax	N/A	N/A	N/A	5 - 30%
Methacrylated oligomer	N/A	N/A	N/A	50 - 80%

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

- **General information:** Change contaminated, saturated clothing.
- **Following inhalation:** In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. If breathing is irregular or stopped, administer artificial respiration.
- **Following skin contact:** Wash immediately with water and soap.
- **After eye contact:** In case of contact with eyes, flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
- **After ingestion:** If swallowed, immediately drink water. Induce vomiting when the affected person is not unconscious.



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#### 4.2 Most important symptoms and effects, both acute and delayed

- **Symptoms:** No symptoms known up to now.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- **No data available**

### SECTION 5: Firefighting measures

#### Additional information

- The product itself is not combustible. In case of fire and/or explosion, do not breathe fumes.

#### 5.1 Extinguishing media

- **Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam, water spray.

#### 5.2 Special hazards arising from the substance or mixture

- **No data available**

#### 5.3 Advice for firefighters

- **Special protective equipment for firefighters:** In case of fire, wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures

- **For non-emergency personnel:**
  - **Personal precautions:** Wear personal protection equipment. Remove all sources of ignition.
- **For emergency responders:**
  - **Personal protection equipment:** Use appropriate respiratory protection.

#### 6.2 Environmental precautions

- Do not empty into drains or the aquatic environment.

#### 6.3 Methods and material for containment and cleaning up

- **For containment:** Suitable material for taking up - absorbing material, organic, sand.
- **For cleaning up:** Suitable material for diluting or neutralizing - water.

#### 6.4 Reference to other sections

- **No data available**

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- **Advices on general occupational hygiene:** When using, do not eat, drink, smoke, or sniff. Avoid contact with skin, eyes, and clothes. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Provide an eye shower and label its location conspicuously.
- **Protective measures:**



- **Advices on safe handling:** Avoid skin contact and eye contact. Always close containers tightly after the removal of product.
- **Measures to prevent fire:** Keep away from sources of heat (e.g., hot surfaces), sparks, and open flames.

### Environmental precautions

- See section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

- **Hints on joint storage:** Materials to avoid - oxidizing agents, strong alkali, alcohols, reducing agents.
- **Storage class:** No storage class.
- **Further information on storage conditions:** Keep only in the original container in a cool, well-ventilated place. Protect containers against damage. Protect against UV-radiation/sunlight.
- **Storage temperature:** Value 10 - 40 °C

### 7.3 Specific end use(s)

- No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- No data available

### 8.2 Exposure controls

- **Personal protection equipment:**
  - **Eye/face protection:**
    - **Suitable eye protection:** Eye glasses with side protection, goggles
  - **Skin protection:**
    - **Suitable gloves type:** Disposable gloves
    - **Suitable material:** NBR (Nitrile rubber)
  - **Body protection:**
    - **Suitable protective clothing:** 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

### 9.1 Information on basic physical and chemical properties

- **Appearance:**
  - **Physical state:** Viscous liquid
  - **Colour:** Opaque yellow-orange
- **Odour:** Not determined
- **pH:** 6.8 - 7.2 (Temperature 25 °C)
- **Melting point/freezing point:** Not determined



- **Initial boiling point and boiling range:** >100 °C
- **Flash point (°C):** >100 °C
- **Evaporation rate:** Not determined
- **Flammability:** Not determined
- **Upper explosion limit:** Not determined
- **Lower explosion limit:** Not determined
- **Vapour pressure:** 0.0018 mm Hg (Temperature 25 °C)
- **Vapour density:** Not determined
- **Relative density:** 1.08 - 1.12 g/cm<sup>3</sup> (Temperature 25 °C)
- **Fat solubility (g/L):** Not determined
- **Water solubility (g/L):** Not determined
- **Soluble (g/L) in:** Soluble in various solvents, insoluble in water
- **Partition coefficient: n-octanol/water:** Not determined
- **Auto-ignition temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Dynamic viscosity:** 1000 - 2000 mPa\*s (Temperature 25 °C)
- **Flow time:** Not determined
- **Kinematic viscosity:** Not determined

#### 9.2 Other information

- No data available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

- No information available.

#### 10.2 Chemical stability

- The product is stable under storage at normal ambient temperatures.

#### 10.3 Possibility of hazardous reactions

- No information available.

#### 10.4 Conditions to avoid

- In case of light influence: Danger of polymerization

#### 10.5 Incompatible materials

- **Materials to avoid:** Reacts with oxidizing agents, reducing agents, peroxides, radical formers

#### 10.6 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

#### 11.1 Information on toxicological effects

- **Acute toxicity:**
  - **Acute dermal toxicity:** >2000 mg/kg (Effective dose LD50: Rat)



- **Acute oral toxicity:** >5000 mg/kg (Effective dose LD50: Rat)
- **Serious eye damage/irritation:** In vitro eye test slightly irritant (Species: Rabbit)
- **Respiratory or skin sensitisation:**
  - **Skin sensitisation:** May cause sensitization by inhalation and skin contact.

## SECTION 12: Ecological information

### 12.1 Toxicity

- **Aquatic toxicity:**
  - **Acute (short-term) fish toxicity:** >180 mg/L (Effective dose LC50, Test duration 48 h, Species: Cyprinus carpio - Common Carp)
  - **Acute (short-term) toxicity to crustacea:** >25 mg/L (Effective dose EC50, Test duration 48 h, Species: Daphnia magna - Big water flea)

### 12.2 Persistence and degradability

- No information available.

### 12.3 Bioaccumulative potential

- Not readily biodegradable (according to OECD criteria).

### 12.4 Mobility in soil

- No information available.

### 12.5 Results of PBT and vPvB assessment

- No information available.

### 12.6 Other adverse effects

- No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- **Appropriate disposal / Product:** Waste disposal according to official state regulations.
- **Appropriate disposal / Package:** Handle contaminated packaging in the same way as the substance itself.
- **Waste code packaging:** 070208 (Hazardous waste: Yes)
- **Waste name:** Other still bottoms and reaction residues
- **Waste code product:** 070208 (Hazardous waste: Yes)

## SECTION 14: Transport information

- **Land transport (ADR/RID) / Sea transport (IMDG) / Air transport (ICAO-TI / IATA-DGR):**
  - **14.1 UN-No.:** Not applicable
  - **14.2 Proper Shipping Name:** Not applicable
  - **14.3 Class(es):** Not applicable
  - **14.4 Packing group:** Not applicable
  - **14.5 ENVIRONMENTALLY HAZARDOUS:** Not applicable
  - **14.6 Special precautions for user:** Not applicable



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- **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC**

**Code:** Not applicable

**Additional information:**

- **Land transport (ADR/RID):** Not a hazardous material with respect to these transportation regulations.
- **Air transport (ICAO-TI / IATA-DGR):** Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information**

**15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**

- No data available.

**15.2 Chemical Safety Assessment**

- Irritant

**SECTION 16: Other information**

**Additional information**

- Observe labels and safety data sheets for chemicals used in processing. Notice the directions for use on the label.
- **Relevant R-, H- and EUH-phrases (Number and full text):**
  - H317: May cause an allergic skin reaction.
  - H413: May cause long lasting harmful effects to aquatic life.
  - H315: Causes skin irritation.
  - H319: Causes serious eye irritation.

**Key literature references and sources for data**

- The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport, and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the newly made-up material.

***End of Safety Data Sheet***