

## **1- Indented Use**

PowerResins Burn 2 resin is a 3D printer resin specifically developed for direct casting applications.

PowerResins Burn 2 resin can be used for all types of DLP/LCD curing 3D printers..

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## **2- Contraindications**

PowerResins Burn 2 Resin should not be used for any purpose other than just casting applications. Any deviation from this instruction for use may adversely affect the chemical and physical quality of the 3D product. In case of allergic reaction, please consult a medical doctor.

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## **3- Safety Instructions**

To ensure optimum further processing, please carefully read the information contained in the instructions for use. Misuse and failure to observe information can have a detrimental effect on quality. When working with resin, nitrile gloves, goggles and a jacket should be worn as a means of protection.

The safety instructions and precautions outlined in the Burn 2 Resin operating instructions and safety data sheet will apply to the removal of liquid resin and uncured resin.

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## **4- Side Effects And Precautions**

For liquid form;

### ***Inhalation***

Irritates the respiratory organs. High concentrations can lead to irritation of the respiratory passages, dizziness, headaches and loss of consciousness.

***Skin contact***

Sensitisation or irritation are possible from contact with the skin. Repeated and / or extended skin contact can cause inflammations.

***Eye contact***

High air concentrations can lead to eye irritations. If on eye wash with plenty of water.

Remove your contact lenses. If skin irritation or rash occurs: Get medical advice/attention

***Swallowing***

Low oral toxicity; ingestion can, however, lead to irritation of the gastrointestinal tract.

**PowerResins Burn 2 Resin,**

Hazardous Component: Phenylbis (2,4,6-trimethylbenzoyl)-phosphine oxide

Color	Green
Viscosity	600 – 700 mPa.s (Anton Paar L3 Spindle 23 °C)
Density	1,1 gr/cm <sup>3</sup> @23 °C

**Warning!****In liquid form;**

H302 - Harmful if swallowed

H317 - May cause allergic skin reactions

H318 - Causes serious eye damage.

H361f - Suspected harm to fertility.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Long lasting, toxic effect in aquatic environment.

### **Safety instructions as per SDS**

- Avoid inhaling aerosol
  - Wear protective gloves / eye protection
  - Call a doctor / physician if you feel unwell
  - If skin irritation/rash occurs: get medical advice / attention
  - If eye irritation persists: get medical advice / attention
  - Dispose of contents / container as per local and national regulations
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## **5- General Information On Handling**

### **Delivery**

PowerResins Burn 2 Resin is supplied in light-tight, sealed bottles.

Please check the following points on receipt of the goods:

- Integrity of the bottle / pack
- Quantity
- Shipping documents and designation

### **Storage Conditions**

Keep the resin bottle range of 22-27 °C / 71-80 °F. The minimum shelf life date printed on the product must be observed. Store this product in tightly closed containers in a properly vented storage area under dry conditions away from sparks and open flames. Avoid the material to direct sunlight. Shelf life is 1 years from production. Perfect processing cannot be

guaranteed if materials which have exceeded their minimum shelf life date are used. For additional information, please see Material Safety Data Sheet.

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## **6- Processing**

### *Processing*

PowerResins Burn 2 Resin is designed to work with all LCD and DLP 3D printers. See the [Printer Settings](#) section on powerresins.com for optimization databases.

### *Cleaning*

1. Allow the model to clean for 3 minutes in compartment 1 of the MEDIFIVE washer containing ethanol solution (96%). After the process is complete, dry the model with a spray air flow.
2. Allow the model washed and dried in compartment 1 to be cleaned in compartment 2 of the MEDIFIVE washer containing ethanol solution (96%) for 3 minutes. After the process is complete, dry the model with a spray air flow.

Do not exceed the 6-minute total cleaning procedure as this may cause deterioration of printed objects.

Hint: Resin residues can also be removed using a brush moistened with ethanol (96%).

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## **7- Post Curing**

PowerResins Burn 2 Resin does not require any post cure after washing. After washing, rest the printed models in a moisture-free environment for 5-7 minutes before pouring. And then, It is available for direct casting.

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## **8- Mechanical Properties**

The mechanical values to Be obtained when the recommended washing processes are applied are given in the table below.

Wavelength	405 nm
Flexural strength	>20 MPa
Flexural modulus	472 MPa

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## **9- Supporting Documents**

[SDS of PowerResins Burn 2 Resin](#)