



# Bilby 3D

## **MATERIAL DATA SAFETY SHEET**

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

### **Section 1: AUSTRALIAN COMPANY DETAILS**

In Australia the product is imported and distributed by:  
Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

### **Section 2: AUSTRALIAN EMERGENCY CONTACT**

#### **Emergency Contact**

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020



## Resin Cleaner 30



### PRODUCT DESCRIPTION

Photocentric Resin Cleaner 30 has been designed to exceptionally clean excess of photopolymer resin off from 3D printed parts. It impressively results in excellent dry to touch surface after post curing, faster post curing time and longer lasting. Due to its optimised properties, it can clean hard to reach cavities and intricate geometries.

### INSTRUCTIONS TO USE

Please read and follow the guidelines provided whilst operating this machine- if these are not adhered to, they can cause damage to your machine. Before starting the machine, ensure that:

- All buttons and switches are turned off
- Previous Resin Cleaner has been drained from the tank
- No liquid has splashed on exposed electronics
- The wash unit is unplugged from the wall
- Required PPE is worn, including lab coat, gloves, and appropriate safety glasses

- 1- Place the wash unit on a flat stable surface.
- 2- Please make sure your wash unit is clean.
- 3- Add the Photocentric Resin Cleaner 30 up to the 'Maximum Fill Level' indicator inside the tank in Air Wash L. If using Wash 99 or Wash15, fill to a level where it will not overflow- approximately 2/3 full. If you use Wash99 or Wash15, ensure to allow Resin Cleaner 30 to cool down if its temperature reaches to 65 °C (150 °F).
- 4- Plug in the wash unit and switch on.
- 5- Place the platform into the wash unit. We

recommend washing for a maximum of 10 minutes. Washing for longer might negatively affect the final mechanical properties of the printed parts.

- 6- To end the washing process press the power button.
- 7- Rinse the parts for 1 minute with water.
- 8- Use compressed air to dry the part/(s) prior to curing. Alternatively, leave the platform to dry naturally for 1-2 hours.
- 9- We recommend 1 hour post curing time when using Photocentric Cure units. However, depending on the resin this time might need adjusting to achieve ultimate mechanical properties.
- 10- Once the hydrometer reading reaches 1.02 it is recommended to change your resin cleaner. However, based on your process you can investigate dry to touch performance to a higher saturation point.  
For example Magna Dental Model Beige the cleaner needs replacing after 200 platform washes. For instructions how to use a Hydrometer, please read pages 2 and 3.

## USPs

- Dry to touch after post curing
- Effective cleaning for all parts, including those with difficult to reach cavities
- Wash clean in only 10 minutes
- Reduces post curing time
- Long lasting
- Biofriendly
- No need to rinse with hot water
- Leaves no white mark residue
- Non-flammable solvent








## Properties

Colour	Light red
Density	1 g/cm <sup>3</sup>
Viscosity	9 cPs @25°
Water miscibility	100% water miscible
Flash Point	Non-flammable liquid >75 °C (Closed Cup)
Odour	Negligible

Available in 1L, 5L and 20L bottles

## STANDARD OPERATION PROCEDURE PHOTOCENTRIC RESIN CLEANER 30 HYDROMETER READING

### QSafetyC

Symbol	Description
	Visual Inspection is required
	Measurement equipment is required to check dimensions
	Quality Checking and/or administration are required
	Mandatory: Check all machine, tool and equipment
	Mandatory: Safety Glasses must be worn (use them all the time, this sign is for special attention)
	Mandatory: Safety Gloves must be worn (use them when necessary, this sign is for special attention)
	Follow HSE requirements all the time (this sign is for special attention)

## RESIN CLEANER USAGE MEASUREMENT



**300mm tall graduated cylinder glass or plastic.**  
(example RS Stock No 461-0875)



**Digital thermometer.**  
(example RS Stock No.123-3215)



**Hydrometer.**  
(example Brannan Hydrometer,  
1-1.2 ° SG, RS Stock No. 380-5044)

## RESIN CLEANER USAGE MEASUREMENT



Make sure you are wearing safety goggles.



Make sure you are wearing appropriate nitrile gloves.

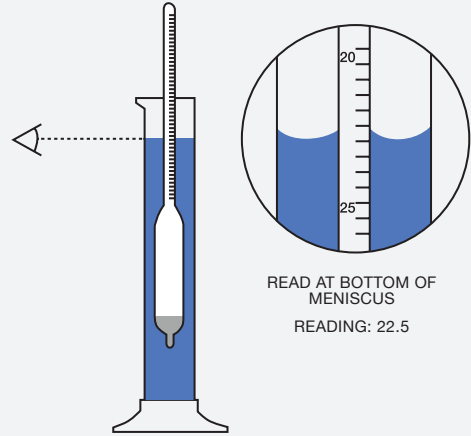


Fill the measuring cylinder with approximately 220ml of used resin cleaner.

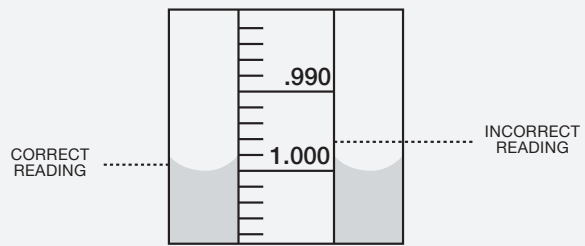


Place the hydrometer into the liquid in the cylinder and read the value.

NOTE: Advise taking measurements under red light to mitigate curing of cleaner at saturation level.



READ AT BOTTOM OF MENISCUS  
READING: 22.5



CORRECT READING

INCORRECT READING

- Hydrometer reading of fresh resin cleaner = ~ 0.970
- Change Resin Cleaner at 1.02 reading.
- Clean the Hydrometer by rinsing with fresh water and store safely.
- Return the decanted resin cleaner liquid to the bulk tank.
- Rinse and dry the measuring cylinder and store safely.

NOTE: The recommended Hydrometer only reads above 1, if the Hydrometer floats below the scale it means your resin cleaner is not yet saturated.