

User Guideline

Ultracur3D® Cleaner

The following User guideline is for professionals who use: **Ultracur3D® Cleaner** as a cleaning solvent. The safety data given in this publication is for information purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). The relevant MSDS can be obtained upon request from your supplier or you may contact BASF directly at sales@basf-3dps.com.

For more information, please refer to the country specific MSDS for advice.

Manufacturer

BASF 3D Printing Solutions GmbH

69115 Heidelberg

GERMANY

E-mail address: sales@basf-3dps.com

<http://www.forward-am.com/>

Storage Conditions and Disposal Considerations

Keep container tightly closed in a room temperature, well-ventilated place. Keep container dry. Ultracur3D® Cleaner must be disposed of or incinerated in accordance with local regulations.

For more information, please refer to the country specific MSDS for advice.

Delivery units

Ultracur3D® Cleaner is available in the following packaging sizes: 1 kg, 20 kg and possible larger volume packaging are also available upon request.

The data contained in this publication are based on our current knowledge and experience. They do not constitute an agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. The customer and/or user is responsible to consider and respect all hazard and safety issues according to the MSDS of Ultracur3D® Cleaner and take, implement and/or install adequate measures and precautions to avoid any personal injuries, property damages and/or environmental pollution. Therefore, BASF3D Printing Solutions GmbH shall not be liable for any personal injury, property damages and/or environmental emissions arising out of or related to the testing, handling or usage, storage and possession of Ultracur3D® Cleaner. It is the sole responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed (02/2020)

Version 1.1

Intended Use

Ultracur3D® Cleaner is used for cleaning of SLA/DLP/LCD printed ‘green’ parts, prior to post curing, it removes residual uncured resin and other surface contaminations. The time required for cleaning depends on the type of resin, the temperature, the agitation (e.g. ultrasound) and the complexity of the part. A second rinsing step with 2-propanol is typically required.

Ultracur3D® Cleaner is non-harmful, non-flammable at room temperature and can be heated up to 50 °C to increase cleaning efficiency. This cleaner is suitable for industrial part washing and cleaning equipment.

Ultracur3D® Cleaner can normally be used until it contains about 10-20% of resin, or until the cleaning performance is noticeably reduced. After this, it should be disposed according to local regulations.

Extensive soaking of parts in Ultracur3D® Cleaner can influence the final properties of the part. High shear agitation using ultrasound, turbulent mixing or other appropriate device will influence the cleaning performance and final part quality.

Typical properties

Liquid Color	Blue
Odor	Ether like
pH value	7 (25 °C)
Melting Point	> 50 °C
Boiling Point	> 100 °C
Vapour pressure	0.017 hPa (20 °C)
Density	1.09 g/cm ³ (20 °C)
Viscosity @ 20 °C	mPa·s (cP) 5

The data contained in this publication are based on our current knowledge and experience. They do not constitute an agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. The customer and/or user is responsible to consider and respect all hazard and safety issues according to the MSDS of Ultracur3D® Cleaner and take, implement and/or install adequate measures and precautions to avoid any personal injuries, property damages and/or environmental pollution. Therefore, BASF3D Printing Solutions GmbH shall not be liable for any personal injury, property damages and/or environmental emissions arising out of or related to the testing, handling or usage, storage and possession of Ultracur3D® Cleaner. It is the sole responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed (02/2020)

Version 1.1

Specific Benefits

- Effectively removes 3D printing resins
- Water rinseable
- Non-flammable at room temperature
- No damage to 'green' part or cured resins when used as recommended

Cleaning procedure

1. Immerse the part in an agitated bath of Ultracur3D® Cleaner for a maximum of 10 minutes. Typical cleaning time is recommended between 5 to 8 minutes. Some require cleaning below 5 minutes.
2. Rinse with 2-propanol for additional 1-3 minutes
3. 2-propanol can be blown off with pressured air or parts can be dried at ambient temperature. For accelerated drying heat the part for approximately 10 minutes at 60 °C (140 °F)

Ultracur3D® Cleaner was successfully tested on a wide variety of commercially available SLA/DLP/LCD resins. We can confirm good compatibility with the following Ultracur3D® resins:

- Ultracur3D® DMD 1005
- Ultracur3D® EPD 1006
- Ultracur3D® EPD 1086
- Ultracur3D® EPD 2006
- Ultracur3D® EPD 3500
- Ultracur3D® EPD 4006
- Ultracur3D® RG 35
- Ultracur3D® RG 50
- Ultracur3D® ST 45
- Ultracur3D® ST 45 B
- Ultracur3D® ST 45 M
- Ultracur3D® ST 80
- Ultracur3D® EL 60
- Ultracur3D® FL 60

For more information, please refer to the User Guideline of each specific 3D printing material.

The data contained in this publication are based on our current knowledge and experience. They do not constitute an agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. The customer and/or user is responsible to consider and respect all hazard and safety issues according to the MSDS of Ultracur3D® Cleaner and take, implement and/or install adequate measures and precautions to avoid any personal injuries, property damages and/or environmental pollution. Therefore, BASF3D Printing Solutions GmbH shall not be liable for any personal injury, property damages and/or environmental emissions arising out of or related to the testing, handling or usage, storage and possession of Ultracur3D® Cleaner. It is the sole responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed (02/2020)

Version 1.1