

Safety Guide | Form Cure L

⚠ Read and understand the manual and safety instructions before using the Form Cure L. Failure to do so can result in serious injury or death. Save this document.

⚠ WARNING

You shall independently verify the suitability of additive manufacturing, stereolithography (SLA), the Form Cure L, and any specific designs or materials employed for the application and intended purpose before use. In no event shall Formlabs be liable for any loss, death, or bodily injury that you suffer, or that you cause to any third party, in connection with your use of Formlabs products. To the fullest extent legally permitted Formlabs EXPRESSLY DISCLAIMS ANY IMPLIED OR EXPLICIT WARRANTY OF FITNESS for a particular usage, the particular nature and circumstances of said usage being unforeseen and unforeseeable to Formlabs.

⚠ WARNING

Formlabs is not a manufacturer of medical devices. Formlabs provides tools and materials that may be used in many applications, but makes no claims as to the safety or effectiveness of any specific devices made using Formlabs products. Certain Formlabs products, such as those commonly known in the industry as "biocompatible" materials, have been engineered to comply with relevant industry standards. The specific standards and most relevant technical specifications may be identified within the technical data sheets and have been tested according to relevant testing protocols for those standards and specifications. Biocompatible materials are a speciality product, developed for use by medical professionals, and should be used in accordance with the instructions for use.

⚠ WARNING

Do not modify. The Form Cure L is intended for use as-is. Modifying the machine without explicit approval and directions from Formlabs or a certified service provider will void your warranty, and could potentially ruin the machine and cause you bodily harm.

Safety Warnings

⚠ DANGER

Do not use water to extinguish an electrical fire. Dousing an electrical fire with water increases the risk of electrocution, and may cause the fire to spread by allowing electricity to conduct across additional flammable surfaces.

⚠ WARNING

Read and understand this manual and its safety instructions before using the Form Cure L. Failure to do so can result in serious injury or death.

⚠ WARNING

Never ingest resin in liquid or solid form. If swallowed, immediately call a poison center or medical professional. Contact Chemtrec at +1 800 424 9300 for global 24-hour emergency assistance.

⚠ WARNING

Always consult the Safety Data Sheet (SDS) as the primary source of information to understand safety and handling of Formlabs materials.

⚠ WARNING

Resin may cause skin irritation or an allergic skin reaction. Wear gloves when handling liquid resin or resin-coated surfaces. Wash skin with plenty of soap and water.

Safety Cautions

⚠ CAUTION

Do not touch hot surfaces. The Form Cure L contains two heaters to help ensure parts are strong after post-curing. Surfaces of the Form Cure L and printed parts may be hot during and after use.

⚠ CAUTION

Some methods of support removal may cause small pieces of supports to break away. Beware of flying debris and consider wearing eye protection and gloves to protect the skin and eyes.

Preparation

CAUTION

The Form Cure L is a heavy object. A two person lift is required to prevent injury and avoid damage to the machine. Always use the included cardboard slings when moving the device.

NOTICE

The Form Cure L requires reliable grounding. The power cable used with the device must be grounded. Do not use an inadequately-rated power cable with the Form Cure L.

NOTICE

Operate the device in a well-ventilated room with a temperature of 18–28 °C (64–82 °F).

Usage

DANGER

Isopropyl alcohol is a flammable chemical. Keep away from ignition sources, including open flames, sparks or concentrated sources of heat. Allow any printed part cleaned with isopropyl alcohol to dry completely before post-curing.

CAUTION

Keep the Form Cure L away from walls and curtains. Keep the area surrounding the turntable clean, and only post-cure parts that have been completely dried. Accumulation of cured material creates the possibility of malfunction.

CAUTION

In an emergency involving resin, always refer to the Safety Data Sheet (SDS) and/or seek help from a medical professional.

CAUTION

Formlabs does not manufacture isopropyl alcohol or tripropylene glycol monomethyl ether. Consult the chemical manufacturer or supplier for detailed safety information. Carefully follow the safety instructions provided with the solvent you purchase. Wear protective gloves and have good ventilation when working with solvents.

ENVIRONMENTAL HAZARD

Uncured photopolymer resin is classified as hazardous to aquatic life.

Maintenance Warnings

DANGER

Tampering with or disassembling the device prior to disconnecting the power cable and waiting at least five minutes can subject users to potentially fatal electrical hazards. When removing the exterior paneling, disconnect the machine from its power source before maintenance.

WARNING

Formlabs provides instructions to advise skilled and non-skilled persons in installing, operating, and maintaining the Form Cure L. The Form Cure L shall only be maintained by a qualified and trained person.

WARNING

Do not open the Form Cure L and/or investigate internal components unless under the guidance of Formlabs or an authorized reseller. Contact Formlabs or an authorized reseller for any additional guidance.

WARNING

Unauthorized disassembly or repair procedures may damage the machine and void the warranty.

WARNING

Wear personal protective equipment when performing maintenance tasks. Use tools only as described.

WARNING

All steps that involve opening the Form Cure L and/or investigating internal components should be done by skilled persons under the guidance of Formlabs or a certified distributor.

Maintenance Cautions

CAUTION

Refer to the SDS and local authorities for guidance on disposing of resin and solvent.