

# Safety Guide | Form Wash L

**⚠ Read and understand the manual and safety instructions before using the Form Wash 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 Wash 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 Wash 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 Wash 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**

Moving parts present crushing and tangling hazards.

### **⚠ 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 Wash 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 Wash L requires reliable grounding. The power supply used with the device must be grounded. Do not use an inadequately-rated power cable with the Form Wash L.

### **⚠ NOTICE**

Operate the device in a well-ventilated room ( $\geq 3$  air exchanges per hour) with a temperature of 18–28 °C (64–82 °F). Due to flammable vapors, place the device at least 0.9 m (3 ft) from other electrical equipment.

## 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**

Cutting hazard. Using tools on slippery surfaces (such as a resin-coated build platform) can result in sudden movement. Orient sharp tools away from yourself, especially when cutting or scraping.

### **⚠ 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 Wash L. The Form Wash L shall only be maintained by a qualified and trained person.

### **⚠ WARNING**

Do not open the Form Wash 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 Wash 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.