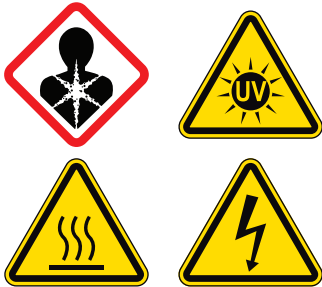
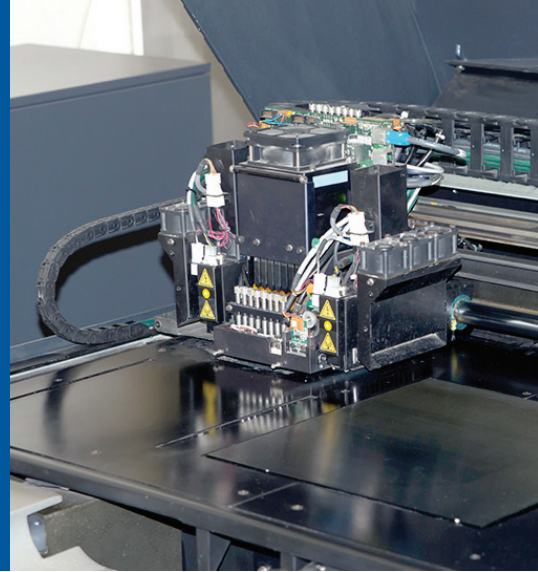


# PolyJet (Objet260) 3D Printing Safety Tips

PolyJet printers use a liquid polymer resin that is jetted (like an inkjet printer) onto a surface in thin layers and cured using ultraviolet (UV) light. Support materials are usually dissolved with a solvent bath.



## Key hazards

- **Chemicals:** Photopolymer resins and solvents are toxic.
- **UV exposure:** Curing lights emit UV radiation.
- **Heat:** The print block and UV lamp are hot after printing. Do not touch.
- **Electrical:** UV lamp and power supply have high voltage and can cause electric shock.



## General safety tips

- Never eat, drink, or store food near work areas.
- Keep the workplace clean and free of resin residues.
- Do not open access panels while the printer is active or bypass safety interlocks.
- Review the manufacturer's guidelines for printer-specific hazards.



## UV safety

- Do not look directly at curing lamps or print beds.
- Keep UV lamps enclosed or shielded to prevent exposure.



## PPE and safe handling

- **Nitrile gloves** to protect skin from resin contact.
- **Safety glasses** to protect eyes from splashes when needed.
- **Cut resistant gloves** to prevent cuts when handling sharp objects and cleaning.



## Ventilation and air quality

- Always operate in well-ventilated areas to avoid exposure to volatile organic compounds (VOCs).
- If available, the printer can be connected to an external exhaust fan.



## Electrical safety

- Use grounded outlets to reduce risk of electrical shock.
- Do not overload power strips to avoid electrical fires.
- Follow lock out/tag out procedures to ensure safe maintenance.



## Chemical and storage safety

- Store build and support materials in clearly labelled containers (see Chemical Safety website at [torontomu.ca/chemical-safety](https://torontomu.ca/chemical-safety)) away from sunlight and heat.
- Ensure objects are fully cured/cleaned before handling without gloves.
- Use only manufacturer-recommended materials and cleaning agents.
- Store and use materials in the order received. **Do not mix old and new material.**



## Waste disposal

- Ensure waste containers are labelled, following hazardous waste guidelines at [torontomu.ca/chemical-safety](https://torontomu.ca/chemical-safety) for the disposal of uncured resins, solvents and cleaning agents.
- Cured resin can be disposed of as standard waste.

## Emergency situations, exposure and spills

In the case of an emergency, dial 911.

Contact TMU Toronto Campus Security at 416-979-5040 (ext. 555040 from an internal phone); or TMU Brampton Campus Security at 416-598-5950 (ext. 555950 from an internal phone).

Report injuries, near misses and hazards to the TMU Emergencies and Reporting website at [torontomu.ca/emergencies-reporting](https://torontomu.ca/emergencies-reporting).

**Skin contact:** Flush with water for 15 minutes. Remove contaminated clothing and shoes. If symptoms occur, seek medical attention.

**Eye contact:** Flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses immediately if present.

**Inhalation:** Remove the person to fresh air. If respiratory issues develop or persist, seek medical attention.

**Spills:** Follow emergency response procedures in TMU's Chemical Safety Manual available online at [torontomu.ca/chemical-safety](https://torontomu.ca/chemical-safety).

