

Lithium-Ion Battery Safety

What are the Hazards?

Fire and explosion are the primary hazards associated with both rechargeable and non-rechargeable lithium-ion batteries



Commonly found in

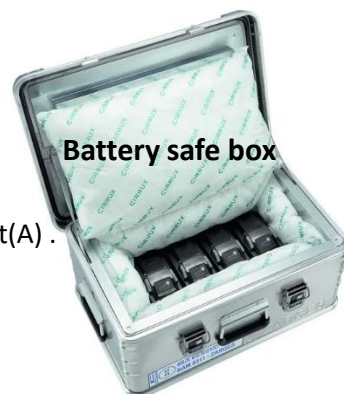
- Cellphones
- Laptops
- Gaming controllers
- Portable power banks
- E-scooters and e- bikes
- Drones
- Powered tools
- Others

What causes the fire and explosion hazards?

- Over heating
- Over charging
- Damage and bloating
- Use of non-standard batteries or chargers
- Exposure to extreme temperatures
- Contact with flammable material
- Charging on soft and combustible surfaces

How to reduce the fire risk?

- Handle with care. Do not modify or tamper with batteries.
- Don't use batteries if showing signs of damage like swelling or overheating.
- Charge away from soft surfaces and bedding to prevent overheating.
- Store your battery at room temperature.
- Use manufacturer recommended charger only with the right voltage (V) and current(A) .
- When not in use, store the batteries in approved battery safe boxes.



What does a swollen battery look like?



Have a lithium-ion battery for disposal?

Do not put lithium-ion batteries in trash or recycling bins.

- Contact Environmental Health and Safety at ehs@carleton.ca
- Report any hazards or incidents using [CU WorkSafe](#)

