

Environmental Fact Sheet



AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation

Waste Management & Prevention Division
802-828-1138

Safe Management of Household Lithium Batteries

For lithium batteries from businesses, which must be managed as hazardous waste, contact the Vermont DEC [Hazardous Waste Program](#) for requirements at 802-828-1138.

There are two types of lithium-based batteries, **Primary Lithium** (metal) and **Rechargeable Lithium Ion**. Lithium Primary batteries are starting to replace the commonly used alkaline batteries because they are longer lasting. These batteries can be found as AA/AAA, C, D, Coin/Button cell, and 9v and are usually labeled with the word "lithium". Lithium batteries are used in common household items such as flashlights, cameras, toys, and for medical devices and security systems. Lithium-Ion batteries are rechargeable and are used in vaping devices, many personal electronics such as cell phones, tablets, and laptops, E-Bikes, electric toothbrushes, tools, hoverboards, scooters, and for solar power backup storage. As the industry advances, more and more products will utilize these powerful batteries.

Lithium batteries can cause fires and even explode if managed incorrectly.

1. IDENTIFYING Lithium primary or Lithium-ion rechargeable batteries

Lithium Primary batteries **MAY** be marked "Lithium;" button/coin cells may begin with (CR###).



Lithium Primary Batteries (non-rechargeable) can be found as AA/AAA, C, D, Coin/Button cell, and 9v. They are starting to replace many common alkaline batteries because they are longer-lasting.



Lithium-Ion batteries **MAY** be marked "Rechargeable," "Lithium Ion," "Li-ION," "Li-ion," "Li-Ion", "LiPo" (lithium polymer); button/coin cell begins with (LIR###). They **MAY** or may not have a battery seal or other mark.

2. STORING/HANDLING Lithium Batteries

- Do not remove any lithium battery that is not intended to be replaceable within the product it powers (such as cell phones, vaping devices, thin laptops, and other electronic products).

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- The battery may be glued into the product. Forced removal of the battery can result in an immediate fire or explosion.
- The battery may be in silver colored, cellophane-type bags or hard-plastic casing. Tearing or puncturing the bag or crushing/penetrating the plastic casing can result in an immediate fire or explosion.
- After removing a spent battery from a product, bag it individually in a clear sealable bag or tape the terminals with clear packing tape.
 - This prevents fires resulting from contact with other batteries or other conductive materials.
 - Less-durable tapes (such as masking or cellophane tape) and open bags commonly fall off during transport.
 - Non-clear bags or tapes (such as duct tape or electrical tape) do not allow a visible identification of the chemistry of the battery when being sorted for recycling and can be a safety hazard to workers.
- Never store ANY batteries where the terminals are touching or anywhere they can come into contact with metal objects such as keys or coins.
- Consider storing large quantities of lithium-based batteries in a separate containment area or building to prevent property loss in the event of a reaction or fire.

3. HANDLING DAMAGED Lithium batteries

Do not use damaged or abused batteries.

- Store outdoors in a watertight covered container filled with sand or kitty litter.
- [Contact](#) your solid waste management district or municipality for proper management in your area.

IF a lithium battery starts to swell, smoke or catch fire

1. Do NOT touch the battery with bare hands.
2. Immediately bring the battery outside and either:
 - a. Submerge it in a container of water.
 - b. Place it in a container of kitty litter or sand.
3. [Contact](#) your solid waste management district or municipality for proper management.

4. RECYCLING Lithium batteries



Primary (single-use) lithium batteries and rechargeable lithium-ion batteries less than 11 pounds* can be recycled at one of the many free manufacturer-funded collection locations across the state. This program also accepts all AA, AAA, C, D, 9-volt, button cell, rechargeable, hearing aid batteries, and cell phones.

To find a location near you go to [Call2RecycleVT](#) or call 1-855-63-CYCLE

*For batteries larger than 11 pounds, please [contact](#) your solid waste management district or municipality.