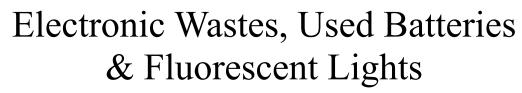


FACT SHEET

Environment, Health and Safety Information for the Berkeley Campus



(Universal Waste Management)

Batteries, electronic wastes, and many types of light bulbs contain heavy metals (such as mercury, lead, cadmium and nickel) and cannot be disposed of in the regular trash. The good news is that these wastes (called "Universal Wastes" because they are so common) can be recycled.

This Fact Sheet provides guidance on how to safely and legally manage Universal Wastes. Examples of Universal Wastes include:

- Batteries: Rechargeable batteries; small alkaline batteries such as AA, AAA, C and D cells, and button cell batteries, such as those used in watches.
- Electronic Wastes: Electronic devices, such as computers and computer monitors, TVs, cell phones, portable MP3 players, pagers, printers, cordless and regular telephones, and microwave ovens.
- Light Bulbs: Straight fluorescent bulbs, compact fluorescent lights (CFLs), high-intensity discharge (HID), metal halide, sodium, and neon bulbs.

Store computer monitors so they do not topple over and break. Store bulbs in their original packaging or find another sturdy container, such as a cardboard box. Mixed batteries can become hot so cardboard is not recommended. A metal or plastic collection container is best for batteries. The Office of Environment, Health & Safety (EH&S) provides containers upon request.

Mixed batteries can cause <u>fires</u>. Tape the batteries' terminals or place individual batteries inside a plastic bag first. Also place corroded batteries inside a plastic bag before placing in the container. Store lead acid and other liquid-filled batteries separately.

Labeling is required on containers of spent batteries and bulbs. Go to http://ehs.berkeley.edu/ hm/279-new-hazardous-waste-program-hwp.html to create and print a label. Be prepared to take a 15-minute training. If you don't have time, use a marker to mark the container with the words "Universal Waste" and the type of universal waste ("Universal Waste Batteries" for example). Also write the date you start collecting the waste and request a pickup within 6 months.





Storing and Labeling





Recycling Universal Waste

UNIVERSAL WASTE TYPE	HOW TO RECYCLE
Electronic Wastes include:	Excess and Surplus will pick up most
	electronic waste.
• CPUs, keyboards, other peripherals	To contact Excess and Surplus:
 Intact computer monitors 	(510) 642-5330
 Liquid crystal display and other 	ucsurplus@berkeley.edu
monitors	property.berkeley.edu/excess-and-
• Laptop computers	surplus/requesting-salvage-pickups
 Televisions 	
 Refrigerators (wiped clean of 	EH&S picks up computer monitors
chemicals and biohazards)	that are visibly cracked (there is a lead
• Fax machines	dust hazard). EH&S also will remove
	oil or other hazardous liquids prior to
Unwanted devices that run on	recycling electronics.
batteries, plug into an outlet or have a	To contact EH&S:
switch or circuit board are considered	(510) 642-3073
electronic waste.	hwp@berkeley.edu
	ehs.berkeley.edu/hm/279-new-
	hazardous-waste-program-hwp.html
Used Batteries	Request an EH&S pickup.
	Go to http://ehs.berkeley.edu/hm/279-
	new-hazardous-waste-program-hwp.
	<u>html</u> and select the option for Universal
	Waste.
El (HID LED 1)	
Fluorescent, HID, LED, sodium vapor	Facilities Services picks up straight
light bulbs	fluorescent bulbs.
Please throw incandescent light bulbs	Call (510) 642-1032 or submit a work
in the trash.	order.
	order.
	EH&S picks up irregular sized light
	bulbs.
	Go to http://ehs.berkeley.edu/hm/279-
	new-hazardous-waste-program-hwp.
	new-hazardous-waste-program-hwp. html and select the option for Universal
	1 0



Cleaning up Broken Computer Monitors and Fluorescent Lights

If a computer monitor breaks, lead dust could be released. Lead generally settles out of the air quickly but vacuuming or sweeping the area can create airborne lead dust. If a CFL breaks, a small amount of mercury vapor and a mercury-containing powder will be released.

If you are comfortable cleaning up a broken computer monitor or fluorescent lamp, minimize contact with the toxic components by cleaning up the electronic waste as outlined below:

- Ventilate the area where breakage occurred for 15 minutes. Post signs to prevent anyone from walking through the area.
- Carefully scoop up glass pieces and powder using stiff paper or cardboard.
- Use sticky tape to pick up any remaining small glass fragments and powder.
- After all glass pieces are collected, wipe the area with damp paper towels and wipe off your shoes if necessary.
- Place all material from the breakage and cleanup into a sealed plastic bag.
- If further cleaning is needed, vacuum the area, but only after all visible materials are removed.

If the room has no windows or a poor exhaust system, or more than one monitor or fluorescent lamp breaks, call EH&S at (510) 642-3073 for assistance.

Electronic Waste at Home

Please do not bring your household electronic waste (or other hazardous wastes) to UC Berkeley. <u>Stopwaste.org</u> (http://www.stopwaste.org/home/index.asp?page=293) is an excellent resource for locations that collect Universal Wastes from the public at no charge.

Thank you for doing your part to protect the environment and meet regulatory requirements.

