

Battery Disposal



UNIVERSITY OF MICHIGAN

Recycling batteries keeps heavy metals out of landfills and the air. Recycling saves resources because recovered plastic and metals can be used to make new batteries.

CONTACT EHS FOR MORE INFORMATION, TO ORDER LABELS, OR TO REQUEST A COLLECTION:

**Environment,
Health & Safety
Hazardous Materials
Management Program
(734) 763-4568**

ALL types and sizes of batteries MUST be recycled properly!

WHAT BATTERIES ARE ACCEPTED?

All battery types and sizes are accepted in the EHS Hazardous Materials Management (HMM) battery collection/recycling program. At the University, all spent batteries must be collected by HMM.

HOW ARE BATTERIES COLLECTED?

Call to request a FREE specially marked white plastic battery collection pail from EHS HMM at 763-4568.

All battery pails must have a green "Universal Waste" label affixed to the container. Fill out the label, including the "Accumulation Start Date." The accumulation start date is the first day that you begin filling the container with batteries. All batteries must be sent for recycling within **one year** of the accumulation start date. However, batteries should only be accumulated for 10 months or less to ensure compliance.

After a battery is spent, place the battery in the white pail and replace the lid. Once the pail becomes 2/3 to 3/4 full, contact HMM at 763-4568 to request collection of the batteries. Replacement pails can be delivered when the full pail is collected.

For collections of lead acid batteries, batteries too large to fit in the pails, or the collection of an extremely large number of batteries at once, please contact HMM at 763-4568 to arrange for a special collection.

HOW ARE BATTERIES RECYCLED?

The batteries are sent to domestic recycling facilities where they are sorted by type.

Alkaline and zinc carbon batteries are shredded and the electrolyte is neutralized. The material is dried, blended with carbon steel trimmings and formed into bricks. The bricks are transported to a steel mill for processing where the zinc is fumed off for recovery and resale as zinc-oxide and the manganese dioxide is used as an alloy in rebar and steel.

Rechargeable batteries, like lithium and nickel, are sent to a facility where the heavy metals are recovered and re-used for the production of more batteries.

Lead acid, silver oxide, mercury oxide and button cell batteries are disassembled, the electrolyte is neutralized and the heavy metals are recovered through controlled temperature processes. The metals are then refined for resale.

UNIVERSAL WASTE	
Accumulation Start Date:	
Universal Waste Type (check which applies, one type per container)	
<input type="checkbox"/> Universal Waste - Consumer Electronic	
<input type="checkbox"/> Universal Waste - Batteries	
<input type="checkbox"/> Universal Waste - Aerosols	
<input type="checkbox"/> Universal Waste - Mercury Thermistors	
<input type="checkbox"/> Universal Waste - Mercury Containing Equipment	
(enter name of mercury containing equipment)	
Contact Information	
NAME:	PHONE:
ROOM:	
BUILDING:	
EPA ID Number:	
Manifest Document Number:	
The University of Michigan	
DEPT. OF EHS 1950 Chapel Rd Ann Arbor, MI 48109-2159 (734)763-4568	In Case of Emergency Contact Public Safety (24 Hours) 1734/763-4131 HANDLE WITH CARE

Universal Waste Label