



# SOLID RADIOACTIVE WASTE PROCEDURES

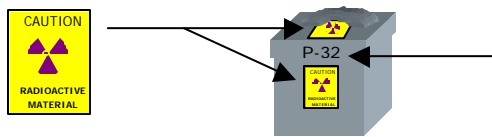
**Definition:** Radioactively contaminated solid materials containing no free standing liquids<sup>2</sup>.

**Examples:** Paper, plastics, microcentrifuge tubes, glassware, empty<sup>1</sup> stock vials, and gloves.

## STORAGE

### 1. Waste containers must be:

- Distinctly different from normal trash receptacles.
- Constructed of sturdy, permanent materials (not cardboard).
- Lined with a plastic bag at least 3 mil thick.
- Marked "Caution-Radioactive Material" on the top and side.



- Identified by isotope.
  - Closed when not in use.
- ### 2. Solid radioactive waste shall be:
- Segregated by isotope.
  - Shielded, as necessary.
  - Free of radiation symbols and markings. (Only applies to wastes with half-lives  $\uparrow$  90 days)



### 3. Prohibited items:

- Lead and other Hazardous Materials.
- Biohazardous Materials.
- Free Standing Liquid<sup>2</sup>.
- "Sharps" (unless placed in a puncture resistant container).

## TRANSFER

### 1. Prepare for transfer:

- Verify that all radioactive markings and symbols are removed or defaced. (Only applies to wastes with half-lives  $\uparrow$  90 days).
- Double bag in clear plastic bags at least 3 mil thick.
- Securely close bags with tape or a knot – not the wire of the waste tag!
- Pipette tips and broken glassware must be placed in a puncture resistant container within the waste bag. A "Sharps" container is acceptable provided that it is NOT red and all labels are defaced.
- Complete and sign the waste tag.
- Securely attach the waste tag to the bag.
- NOTE: Massive items (motors, centrifuges, rotors, etc.) may not be placed in regular solid waste containers. Contact the RSD for specific disposal procedures.

### 2. During transport:

- Use a sturdy cart to transport solid waste.
- Apply adequate shielding, if necessary.
- Take the waste to the nearest radioactive waste pickup location at the designated time.
- Utilize freight elevators, if possible.

## WASTE TAG

Radioactive Waste ID Tag	
Tag #	121554
Instructions: Complete tag on date waste is last generated then attach to container. Contaminated and/or incomplete tags will not be accepted.	
Responsible User (PI):	Dr. Bruin LA #: 000
Department:	Medicine Bldg/Rm: MBI/101 Phone: 5-5555
Contact Person:	M. Curie Date: 7/4/00
Nuclide:	P-32 Activity: N/A (mCi) 7 (uCi)
Nuclide:	Activity: (mCi) (uCi)
Nuclide:	Activity: (mCi) (uCi)
Waste Composition	
(Check One)	
<input type="checkbox"/> Liquids: Total Volume: _____ (Liters)	
<input checked="" type="checkbox"/> Solids: (Dry Waste without Liquids)	
<input type="checkbox"/> Scintillation Fluid: Brand/Manufacturer: _____	
Volume: _____ (Liters)   Filled out by RSD: <input type="checkbox"/> BD: <input type="checkbox"/> Hazardous	
<input type="checkbox"/> Animals: Type: _____ # _____ Weight: _____ (g) (kg)	
<input type="checkbox"/> Other: Contents: _____	
* (Chemical Constituents) *	
Full Chemical Name (List ALL compounds separately) No Abbreviations or Chemical Formulas	Wt (solid = gm) or Vol (liquid = liter)
_____	_____
_____	_____
(Use back of tag if more chemicals or nuclides)	
Certification: I certify that above is accurately described and contained for safe handling.	
X _____ M. Curie (Filled out by RSD):	Initials and Date
Authorized Signature	
STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL If found contact UCLA EH&S at (310) 825-3689	
Caution - Radioactive Material	

## NOTES

<sup>1</sup> **Empty** means NO liquid or liquid-containing mixture, such as LSC gel, and no observable movement of liquid when shaken.

<sup>2</sup> **Free standing liquid** is that amount which can readily run, and thus could easily be emptied from centrifuge tubes, pipettes, etc. It is not droplets retained in containers by surface tension or capillary action.