



ENVIRONMENTAL HEALTH & SAFETY | RADIATION SAFETY

RAM Mixed Waste Disposal

Follow instructions on Page 2. Improperly completed forms will be returned.
Save form and email to radwaste@ucdenver.edu
Call EHS at 303-724-0345 with any questions.

Contact Information

PI _____ Date: _____

Requestor: _____ Requestor phone: _____

Bldg/rm number: _____ Requestor email: _____ @ucdenver.edu

Chemical name (no abbreviations)	Isotope	mCi	Percent content	Total volume (liters, grams)	Physical state (S, L, G)	Contaminants present?	EHS USE ONLY	
							HC	RCRA

Comments: _____

EHS USE ONLY	Date form received:	Date waste picked up:
---------------------	---------------------	-----------------------

Instructions

A. General guidelines

1. Waste must be in a chemically compatible container, free of leaks, with a proper lid (e.g., corks, rubber stoppers, parafilm not permitted). EHS will provide free containers and lids whenever available.
2. Do not fill containers completely full. Leave air gap of 5-10% to allow for expansion of liquid.
3. Containers which are leaking, have improper lids, are completely full, or are externally contaminated with any waste product will not be picked up. Transfer waste to new container if necessary, or decontaminate affected area.
4. Properly label containers by placing a completed Mixed Chemical/Radioactive Waste label on every container submitted for disposal. Do not use abbreviations. Place the label over any existing label on the container prior to adding waste.
5. A Mixed Chemical/Radioactive Waste label must be affixed to *every* tray of vials containing scintillation cocktails which are flammable (flashpoint < 140°F), corrosive, or otherwise hazardous. The information on the label must exactly match that on the Radioactive Mixed Chemical Waste Disposal form.
6. Separate liquids from solids. If solids cannot be separated from liquids, affix a note to the waste container stating the composition of the solid.
7. Segregate sharps into a sharps container, disposing of full container in normal solid radioactive waste stream.
8. Radioactive wastes and organic solvents must be kept segregated, except in normal scintillation cocktails.
9. Schedule a pickup well before accumulating 55 gallons of toxic waste or 1 kilogram of acutely toxic waste. Call EHS immediately at 4-0345 if this threshold is exceeded.

B. Filling out form

1. **Chemical name.** Do not abbreviate. List all components, along with the concentration *in percentage* by weight or volume. Call EHS regarding the handling of unknown wastes.
 - Ex. 1) For tritiated scintillation vials containing Econofluor TM:
Econofluor TM, pseudocumene 90%, surfactants 10%.
 - Ex. 2) For S-35 scintillation vials containing Flo-Scint II:
Flo-Scint II, pseudocumene 10%, petroleum distillates 50%, surfactants 40%
 - Ex. 3) C-14 in a phenol/chloroform mixture:
Phenol 30%, chloroform 70%
2. **Isotope.** Write name, such as S-35, C-14, P-32, etc.
3. **Activity.** Write amount of each isotope in container in mCi.
4. **Percent concentration.** Write 100 for pure materials. Write percent of each component in mixtures. For wastes in concentrations of < 0.01%, list in milligrams/liter or micrograms/liter. For trace contamination, write "trace."
5. **Total volume.** Enter total quantity to be disposed in gallons, liters, kilograms or grams. Enter one total for all containers of the same material.
6. **Physical state.** Enter S (solid), L (liquid), or G (gas).
7. **Contaminants present?** Indicate the presence of infectious agents (e.g., human serum), heavy metals (e.g., arsenic, barium, cadmium, chromium, lead, mercury, selenium, uranium), PCBs, dioxin, asbestos, water reactive drying agents (e.g., sodium hydride), or other significant contaminants. If none, write "no." If contaminants are present write "yes," and attach a note to the container listing the name and concentration.
8. **Comments.** Write pickup access or time restrictions in the comments section.

C. Pickup schedule

Chemical wastes are picked up one a week. EHS may request that the waste be temporarily kept in the SAA if the next scheduled outbound waste shipment is more than 90 days.