

RADIOACTIVE WASTE GUIDE

1. Sort by HALF-LIFE (T_{1/2})

Short Lived (T_{1/2}≤175 days) F-18, P-32, S-35, Tc-99m, I-125, etc. Long Lived (T_{1/2} > 175 days) H-3, C-14, Uranium, Thorium, etc.

If an experiment involves mixing short- and long-lived radionuclides, then all waste should be placed in the "long-lived" category.

2. Sort by RADIOACTIVE WASTE TYPE

After sorting by half-life, waste must then be sorted by their physical and chemical form into the categories listed below. Do not mix different categories together. All waste containers must be properly marked as "radioactive".

NOTE: For Short-Lived waste, deface or remove all radioactive material labels, stickers, and markings on items before putting them into waste containers.

WASTE TYPE	DO INCLUDE	DO NOT INCLUDE	PACKAGING
A. SHARPS	 Needles (must go in plastic sharps container) Glass and plastic pipette, tips, and Pasteur pipettes Glass ampoules, other glassware Razor blades, etc. 	Lead Liquids Animal/biological waste	Plastic sharps container
B. DRY SOLIDS	Dry, solid radioactive materialGloves, absorbent pads or paperEmpty plastic vials	LeadLiquidsAnimal, biological materialSharps, glass	Clear, heavy duty, plastic bag
C. ANIMAL / BIOLOGICAL	 Frozen animal carcasses, parts Excreta, bedding, tissue, blood Separate animals from otherbio waste < 10 kg (22 lbs) per package 	•Unfrozen animals•> 10 kg (22 lbs) per package•Other waste types	Clear, heavy duty, plastic bag or plastic- lined cardboard box
D. LIQUIDS (Non-Hazardous, Non- Toxic)	 NHNT liquids, including full LSCvials or cocktail (e.g., Optifluor) Bulk liquid or full vials 	Hazardous, toxic, or flammable liquids Non-radioactive vials/liquids	 Full vials in cardboard trays in original box (preferred) or in clear, heavy-duty bag; Bulk liquids in carboy containers
E. MIXED WASTES (Hazardous, Toxic)	 Avoid or minimize creating "mixed" hazardous and radioactive waste Toluene, xylene, hexane, etc. Acids, bases, Hg, Pb, etc. 	Non-hazardous, non-toxic material	W. Lector of the Control of the Cont
F. SEALED SOURCES	 Non-dispersible radioactive material in original configuration Single solid piece of radioactive material 	Dispersible radioactive material Radioactive material in bottles/vials	Original container with sealed source documents