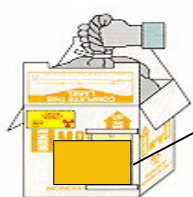


# Radioactive Waste Disposal Guidelines

## General Requirements

- For complete instructions, refer to Chapter 5, *Radiation Safety for Radiation Workers*
- A completed Radioactive Waste Disposal form must accompany the waste.
- Keep waste types separate Keep aqueous separate from organic liquids
- Except for H-3 / C-14, keep radionuclides separate whenever possible
- Except for liquid containers, all radioactive waste must be in strong boxes & taped shut.
- Radioactive Waste labels, Liquid waste tags, and disposal forms are available from Safety or at Room 62, Biochemistry

## Solid Waste



**RADIOACTIVE - LSA**  
 Complete and attach one label to EACH waste box

AUTHORIZED USER: ZERMAT M T  
 PICKUP NO. 23893 DATE 10/20/XX  
 NUCLIDE P-32 ACTIVITY 0.05 mCi

CHECK WASTE TYPE BELOW (ONE ONLY)  
 SOLID  
 LIQUID - Attach a radioactive liquid waste tag to EACH container INSIDE  
 LSC VIALS BRAND OF COCKTAIL: \_\_\_\_\_  
 ANIMAL

- Use yellow bags to hold waste in labs; place in strong cardboard box for disposal.
- Sharps must be packaged inside plastic / cardboard containers.
- No lead pigs, no liquids -- these must be packaged separately.
- Box must be labeled with a Radioactive Waste label.
- Box must be smaller than 14" x 24"

## Small Volume Liquid Wastes



**RADIOACTIVE LIQUID WASTE**  
 Complete and attach one tag to EACH liquid container

AUTHORIZED USER: ZERMAT M T PICKUP # 23893  
 DATE 10/20/XX NUCLIDE P-32 ACTIVITY 0.45 mCi

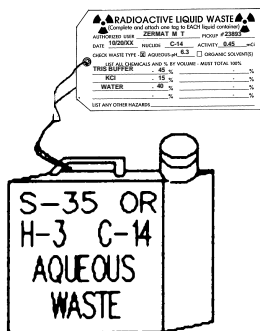
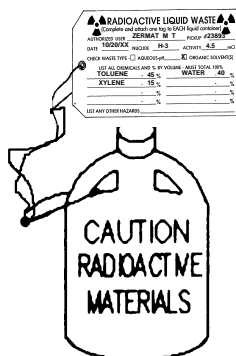
CHECK WASTE TYPE:  AQUEOUS pH 6.3  ORGANIC SOLVENT(S)

LIST ALL CHEMICALS AND % BY VOLUME - MUST TOTAL 100%  
 TRIS BUFFER - 45 %  
 KCl - 15 %  
 WATER - 40 %

LIST ANY OTHER HAZARDS: \_\_\_\_\_

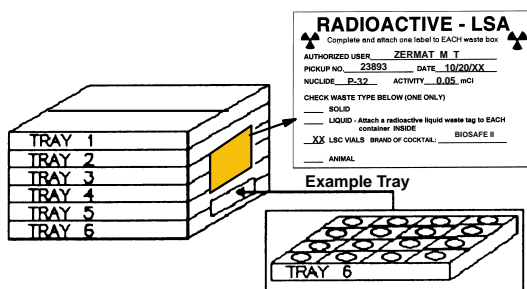
- Except carboys, liquid containers should be larger than 500 ml and smaller than 4 liters -- call safety if you need 1 L, 2 L, or 1 gallon containers.
- Place caps on bottles and tighten firmly.
- Attach a Radioactive Liquid Waste tag to each bottle -- identify all constituents by percent (%) of weight or volume.

## Carboys



- Use for large volumes of low concentration liquid wastes.
- Use round carboys for organic wastes, square carboys for aqueous wastes.
- Radioactive Liquid Waste tag must be attached to each carboy.
- Identify all constituents by percent (%) of weight or volume.
- Do not overfill -- fill carboy only to the bottom of carboy neck. Use correct cap and secure tightly.

## LSC Vials



**RADIOACTIVE - LSA**  
 Complete and attach one label to EACH waste box

AUTHORIZED USER: ZERMAT M T  
 PICKUP NO. 23893 DATE 10/20/XX  
 NUCLIDE P-32 ACTIVITY 0.05 mCi

CHECK WASTE TYPE BELOW (ONE ONLY)  
 SOLID  
 LIQUID - Attach a radioactive liquid waste tag to EACH container INSIDE  
 LSC VIALS BRAND OF COCKTAIL: BIOSAFE II  
 ANIMAL

- Package 20 ml vials in their original trays and boxes, do not use boxes larger than LSC cases.
- Mini-vials may be placed in a plastic bag, place bag in a box with absorbent material in the bottom to soak up any leakage.
- Label box with a Radioactive Waste sticker -- include cocktail brand name (e.g., Biosafe II) on sticker.
- Do not empty organic LSC vials into any other containers.
- Keep organic vials separated from Biosafe vials.