

What is Biomedical Waste?

- Biomedical Waste (BMW)- any infectious, pathological chemotherapy waste generated during the administration of medical care or medical research involving humans or animals
- BMW includes the receptacles and supplies generated during the handling and/or storage of infectious waste
- BMW does **not** include hazardous and radioactive waste



Biomedical Waste Examples

- Examples of materials contaminated with infectious waste that must be treated as biomedical waste include:

Examples	
Animal Carcasses	Micro-centrifuge tubes
Animal Bedding	Microtiter plates
Animal Waste	Pipettes
Conical tubes	Sharps
Disposable Inoculating Loops	Spill Clean-Up Debris

- **No liquids, hazardous chemical waste, or radioactive waste** are allowed in biomedical waste box-bag units

What are Sharps?

Sharps- discarded needles, syringes (with or without attached needles), razor blades, lancets and other items that can puncture or tear an autoclave bag used in animal or human patient care/ treatment, medical research, or industrial laboratories



Sharps Examples

Sharps Examples	
Hypodermic needles	Blood vials
Syringes (with or without needles)	Broken culture dishes
Needles (with or without attached tubing)	Dental carpels
Scalpel blades	Pipettes/Pipette tips
Razor blades	Test tubes

Personal Protective Equipment

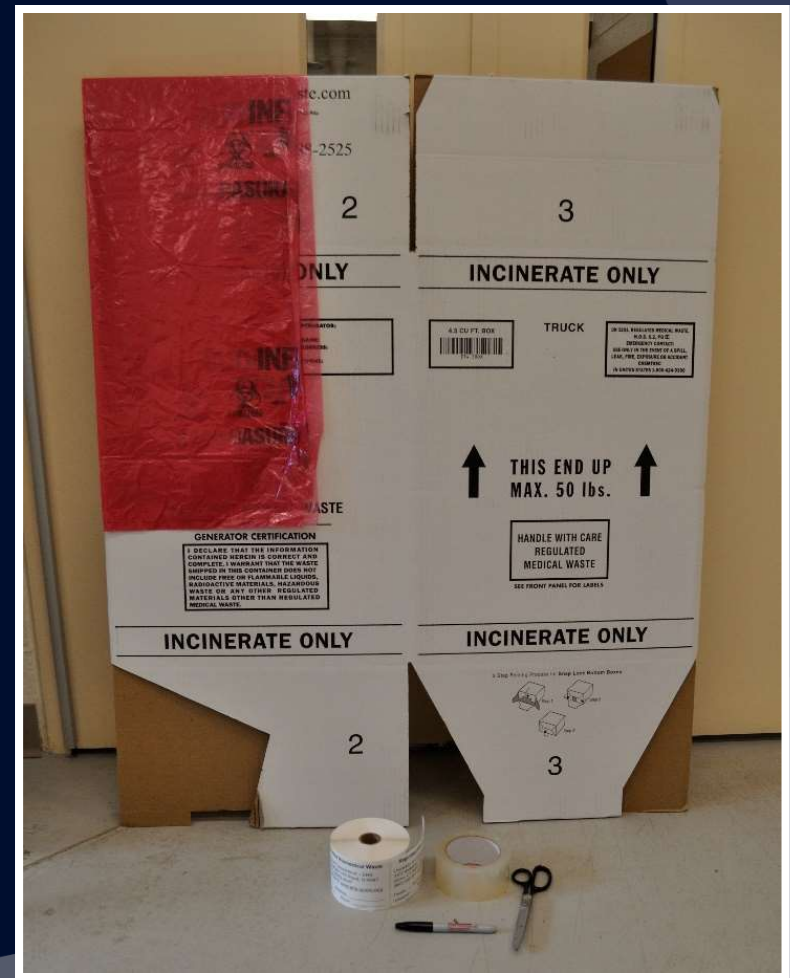
Prior to managing biomedical waste, the following personal protective equipment must be worn:

1. ANSI Z87.1-certified eyewear
2. Nitrile gloves
3. Lab coat
4. Clothing that covers the legs
5. Closed-toed footwear



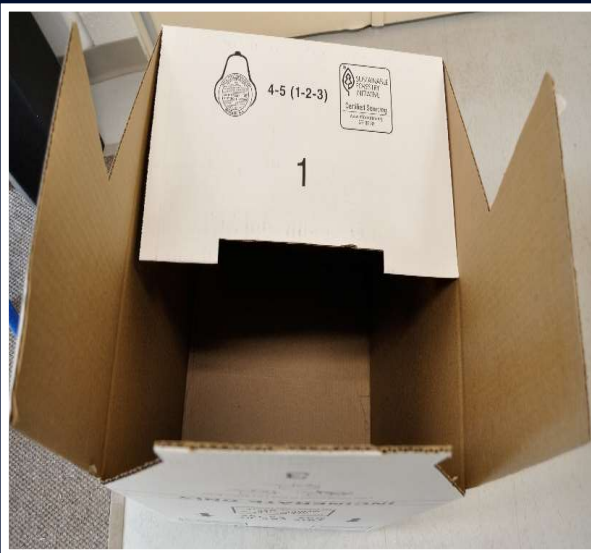
BMW Box-Bag Unit Materials

1. 4.5 cubic foot biohazard box
2. 1 red biomedical waste liner bag
3. Clear packing tape
 - Packing tape must be at least 2" wide
 - No duct tape, lab tape, scotch tape or masking tape allowed
4. Scissors
5. Biomedical Waste Labels
6. Permanent Marker

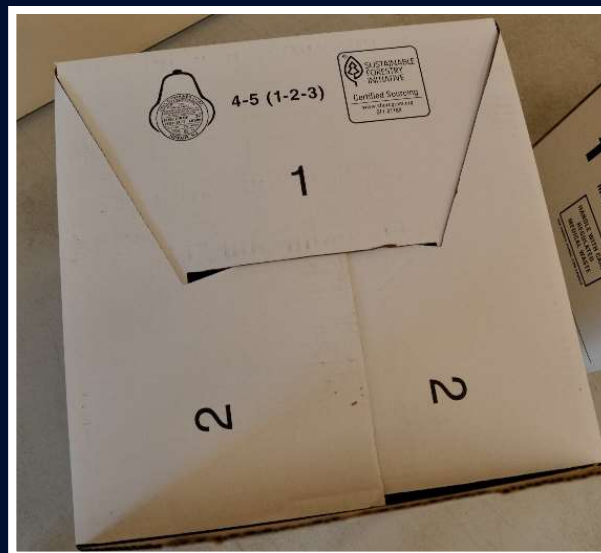


Constructing the BMW Bag-Box Unit

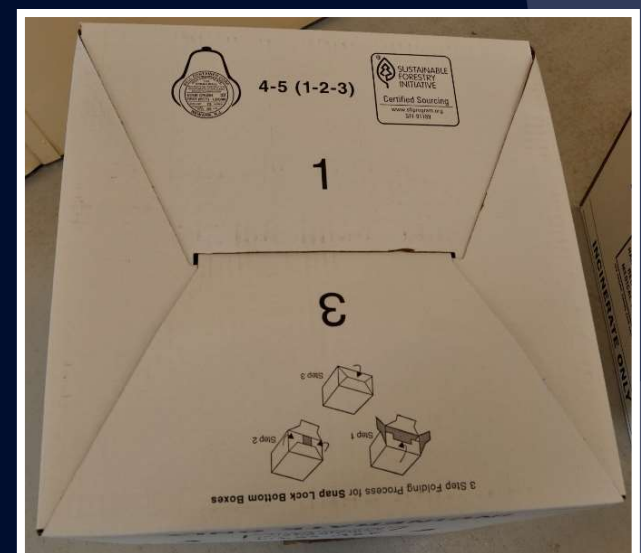
1. Fold down Tab 1



2. Insert both 2 Tabs under Tab 1



3. Insert Tab 3 into Tab 1



Constructing the BMW Bag-Box Unit (cont.)

4. Place 2 strips of clear packing tape through the center of the box to secure flaps 1 and 3. Run the tape at least **6 inches** up the side of the box on each side
5. Press down the tape to remove air bubbles
6. Place 2 more strips of packing tape through the center of the box perpendicular to the first two pieces of tape. Run the tape at least **6 inches** up the side of the box on each side
7. Place the red biohazard liner bag in box



Biomedical Waste Management

- Solid biomedical waste must be contained in two bags (i.e., single bag(s) contained inside the red biomedical waste liner bag)
- Sharps containers must only be contained in the red biomedical waste liner bag
- Each autoclave bag or sharps container must be sealed and labeled when filled



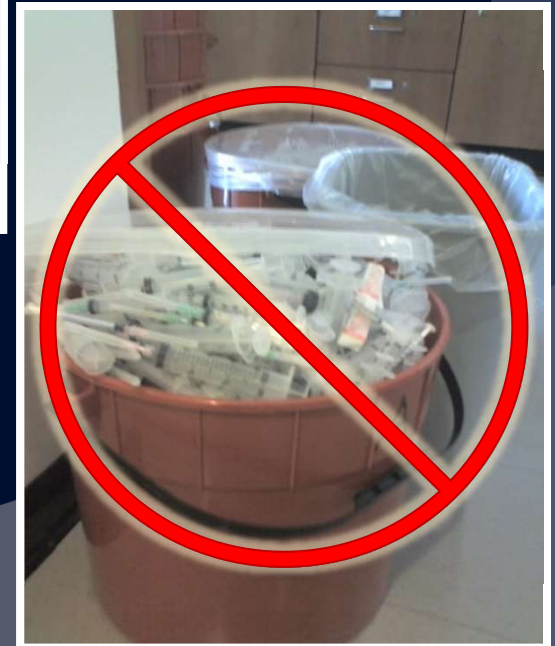
Biomedical Waste Management



- Place large, heavy items on bottom of the box
- Place smaller, lighter items on top
- Do not overfill box
- Overfilled (i.e., boxes greater than 40lbs or that cannot close) or leaky boxes will be rejected at pick up or returned for repackaging

Biomedical Waste Management

- **Never** add sharps to a trash can or fill above the maximum fill line on the container
- **No** liquids, hazardous chemical waste, or radioactive waste are allowed in BMW bags or sharps containers



Closing the BMW Bag/Box Unit

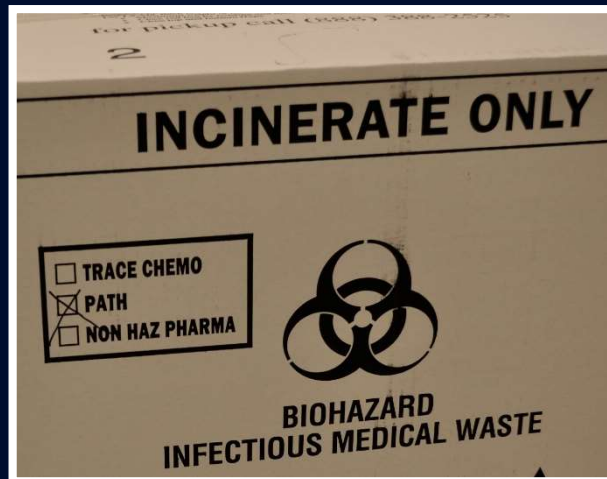
1. Tie or tape the red BMW liner bag
2. Place a completed white “Regulated Biomedical Waste” label on the red BMW liner bag
3. Fold the top flaps of the box as shown (**Never** crisscross flaps)
4. Use 2 strips of clear packing tape to secure the top flaps
5. Run the tape at least 6 inches down the side of the box on each side
6. Press down the tape to remove air bubbles



Closing the BMW Bag/Box Unit (cont.)



7. Place a “Regulated Biomedical Waste” label on the top of the box
8. Check off “Treated” or “Untreated” and write the **Building** and **Room Number** on the label



7. Check the box for “PATH” on the side of the box
8. Submit a Biological Waste Pick-Up to have the waste removed through EHS

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