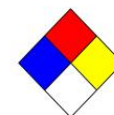


# UC Merced

## Medical Waste Management Training



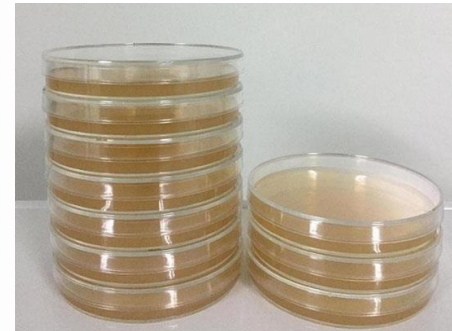
[biosafety@ucmerced.edu](mailto:biosafety@ucmerced.edu)  
(209) 228-2347



# Classes of MW

MW is classified into three types:

1. Liquid
  2. Solid
  3. Sharps
- Cultures and stocks (includes growth media & plates)
  - Pathological waste
  - Human blood and blood products
  - Sharps (both used and unused)



# Waste Management & Spills

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- Labeled on all sides with biohazard symbol.
- Red sharps- for sharps contaminated with Biohazardous Material.



FOR MORE INFORMATION, visit-

<https://ehs.ucmerced.edu/researchers-labs/medical-waste-management>

# Purpose of labeling

Bags and sharps containers need to be labeled before waste is added.

PI J. Doe Room 134

UC Merced  
4225 N Hospital Rd  
Atwater, CA 95301



Biohazard Waste

PI B Smith Bldg SE1 Rm144

UC Merced  
5200 N Lake Rd  
Merced, CA 95343



Biohazard Waste



# Waste Management

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## Contaminated Liquids:

Make a 10% bleach solution and mix with liq. Waste.

Wait for 20-30 minutes. Dispose of in the sink with running water



## Mixed waste

### ALWAYS CONTACT EHS FIRST!

Biohazrd +

- ❑ Radioisotopes or,
- ❑ Hazardous chemicals or,
- ❑ Heavy metals



Inactivate the biological material AND follow EHS&S' direction



# Waste Management

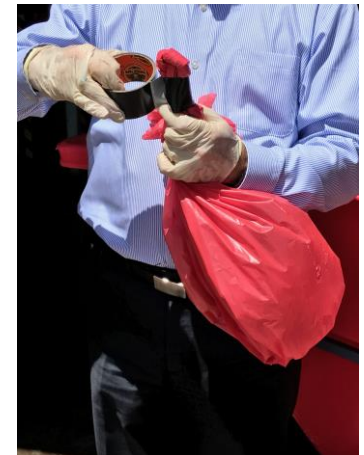
6

## Solid waste:

- ❑ Red biohazard bags
- ❑ Put bags in red RMW container.
- ❑ Seal when 2/3<sup>rd</sup> full
- ❑ Autoclave
- ❑ Label
- ❑ Transfer bag in red biohazard cans located in waste area (caged area)



Medegen Autoclave biohazard bag  
Fisher catalog #22-023-800



# If using cardboard biohazard box

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**Label-**  
**“NOT A SHARPS**  
**CONTAINER! ONLY dispose**  
**biologically**  
**contaminated serological**  
**pipets and disposable plastic**  
**pipette tips”.**

# Waste Management

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## Trace Chemotherapy waste:

- double-bagged in red, labeled bags.
- Transfer to yellow waste bins in waste area





# Waste Management

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## Pathology waste:

- ❑ double-bagged in red, labeled bags.
- ❑ Transfer to grey waste bins inside the refrigerator in waste area



# Medical Waste (MW)

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Laboratory Staff **MUST** Autoclave **OR** Chemically Disinfect the following **BEFORE** putting it in the Solid MW container:

- Potentially infectious solid waste (BSL2 and higher)
- Tissue or cell culture materials
- rDNA or genetically engineered BSL2 organisms
- **No Liquids in the solid MW container!**

Which disinfectant to use?  
[Look at the EPA list on the Web!](#)



# Which items are sharps?

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## Sharps include:

### ■ (All Labs)

- scalpels, razor blades, needles, and **syringes without needles.**



### ■ (Biohazard Labs Only)

- Pasteur pipettes, glass slides & coverslips (used and unused)
- Broken glassware with biohazard contamination.



# Where should sharps go?

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For non-biohazard  
contaminated  
sharps only



For biohazard  
contaminated  
sharps only

# Sharps Waste



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- Sharps (regardless of use) are to be disposed **IMMEDIATELY** in a sharps container
- **No recapping, bending or snipping needles or re-sheathing of scalpels**
- When full, sharps containers are closed, labeled with an “inner container” label and placed in the solid RMW container



*Sharps must not stick out of sharps containers.*

# When its full?

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When it reaches the level indicated on the box.



# Biological (solid) waste accumulation sites

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**SE 1:** Caged area in SE1-144 (loading dock).

**SE 2:** Caged area on the main floor across from the freight elevator.

This is how double bagging looks like



Sticker should be placed on top facing upward

# NO SHARPS IN THE BAG!



No Needles/Syringes



No Blades



No Glass



BIOLOGICALLY CONTAMINATED  
SHARPS MUST GO INTO A  
**RED** SHARPS CONTAINER



UNIVERSITY  
OF  
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MERCED

**PUNCTURES ARE PREVENTABLE!**

[ehs.ucmerced.edu/researchers-labs/medical-waste-management](http://ehs.ucmerced.edu/researchers-labs/medical-waste-management)

Questions? Contact EH&S at 209-228-2347  
or [biosafety@ucmerced.edu](mailto:biosafety@ucmerced.edu)

# Medical Waste

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## The GOOD!



All MW containers must have lids.



Have a sharps and/or solids container inside biosafety



Have a sharps container on bench

## The BAD...



Slides, coverslips, glass pipettes, and syringes in a broken glass box.



Liquids, loose syringes, and regular trash



# More BAD

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# For more information visit-

<https://ehs.ucmerced.edu/researchers-labs/medical-waste-management>

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ENVIRONMENTAL HEALTH & SAFETY

Search this site...

GENERAL SAFETY ENVIRONMENTAL PROGRAMS RESEARCHERS & LABS FACILITIES STUDENTS CONTACT US REPORT AN INCIDENT/CONCERN

## Researchers & Labs

- Biological Safety
- Chemical Safety
- Field Safety
- New Lab Worker
- PPE
- Principal Investigators
- Radiation Safety
- Shipping Hazardous Materials
- Tip of the Month
- Waste Disposal
  - Chemical
  - Medical
  - Sharps
  - Universal

## Contact Information

**Emergency? Call 911  
or (209) 228-2677 (CAT-  
COPS)**

Inquiries and incidents:  
biosafety@ucmerced.edu  
General EH&S line: 209-228-2347

## Medical Waste Management



October is [National Biosafety and Biosecurity Month!](#) Now is a time we encourage you to focus attention on biosafety policies and practices. Investigators and laboratory managers can raise biosafety awareness, discuss the importance of safety and security, and seek input on ways to strengthen biosafety in their labs. By keeping up-to-date on the latest trainings, practices, and procedures, all individuals can contribute to a safe environment for themselves and their peers.

### This year's focus is on Medical Waste Management

Let's work together to make sure all medical waste (including sharps!) is handled and disposed of properly. Remember to report any incidents to EH&S!

Download Our [Medical Sharps Poster](#) for Your Lab Today!



## Useful Links

### Biological Use

#### Authorization (BUA)

- BIO (BUA application)
- BUA Amendment

### UC Resources

- Biosafety Manual
- BBP Exposure Control
- Dual Use Research of Concern (DURC)
- UC Workers' Comp

### Forms

- HBV vaccine declination
- Incident Report

### Personal Protective Equipment



Biosafety Information System



Occupational Health

# Questions?

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Please feel free to contact EH&S at any time

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