Chemical Disinfection of Biological Waste

State and Federal regulations require proper control of biowaste during accumulation and treatment before disposal. These guidelines assist you in the safe management of your biowaste.

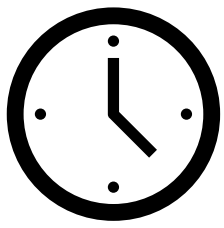
1 Waste Containers

- Waste is to be collected in leak-proof containers. Bags with the universal biohazard symbol must be used to collect solid waste. If you steam-sterilize your waste, make sure your bags are autoclavable.
- Other than benchtop collection, biohazard bags must be contained in a solid, leak-proof container with a lid capable of decontamination.
- The container must be marked with the biohazard symbol.
- Always wear your PPE!

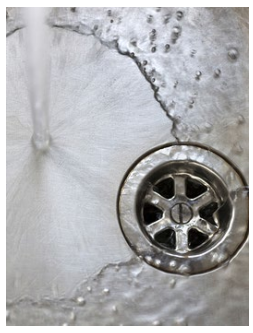
2a Liquid Biowaste Treatment

1. Freshly prepare appropriate dilution of household bleach. It is best to use RO/DI water (minimum of 1:10 dilution is required by state law).

2. Add bleach solution to liquid waste 1:1 (volume/volume).



3. Let mixture sit **no less than** 10 minutes.

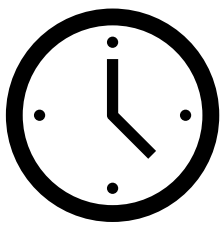


4. Pour down the sink and flush with large amounts of water.

2b Solid Biowaste Treatment

1. Freshly prepare appropriate dilution of household bleach. It is best to use RO/DI water (minimum of 1:10 dilution is required by state law).

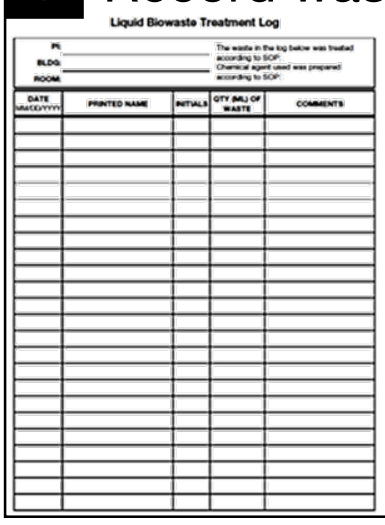
2. Submerge tips and pipettes in bleach solution. Draw solution into each unit as you add it to the bleach bath.



3. Let mixture sit **no less than** 10 minutes.

4. Dispose of as municipal trash

3 Record waste treatment in the log.



Liquid Biowaste Treatment Log

PI: _____ BLDG: _____ ROOM: _____

The waste in the log below was treated according to SOP: _____ Chemical agent used was prepared according to SOP: _____

DATE (MM/DD/YYYY)	PRINTED NAME	INITIALS	QTY (ML) OF WASTE	COMMENTS

The LOG must include:

1. Conditions of treatment
2. Your name and initials
3. Todays date
4. Amount (g/mL) of waste treated
5. Site the SOPs for chemical preparation and treatment

This poster and other resources are available on our website!

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