

**CMU-Qatar
Hazardous
Wastes Disposal**

CMU-Qatar Hazardous Wastes Disposal

- **Biological Wastes BSL1 – from teaching/research labs**
Include **Biological Strains, Petri dishes** and **Tissue culture flask**.
*Temporarily store the wastes on the following containers.



CMU-Qatar Hazardous Wastes Disposal

Biological strains	Strain name	Safety classification
Escherichia coli	E.coli C	BSL 1
	E. coli C600	BSL 1
	DH5 α	BSL 1
	HB101	BSL 1
	E.coli C6318	BSL 1
	CM58	BSL 1
	Saccharomyces cerevisiae	BJ2664
Mammalian cells	Madine Darby Canine kidney type II	BSL 1

CMU-Qatar Hazardous Wastes Disposal

* **Disposal of wastes with no added hazardous chemicals** is by autoclaving at 121 degrees Celsius for 60min at steam pressure = 1 bar (14.504 psig) – Program 6 (P6) in the RAYPA autoclave in Lab 2033.

* Proper "kill" is ensured by using the Biological Indicator strips.

* Autoclaved waste is then placed into cardboard boxes and disposed as ordinary waste.

* Autoclaving of wastes is done regularly.

* **Disposal of wastes with hazardous chemicals** is c/o Qatar Petroleum Hazardous Waste Treatment Center (contractor). Same as how chemical and chemically contaminated wastes are disposed. See details in the next slides.

CMU-Qatar Hazardous Wastes Disposal

- Broken Glasses / Empty Propane Canisters / Empty Chemical Bottles / Sharps



CMU-Qatar Hazardous Wastes Disposal

*Inform Maria Navarro if you have any of these waste in your laboratories. Waste containers for glass/sharps are available upon request.

*Waste pick-up is scheduled at the end of each term.

*Disposal is c/o Qatar Foundation thru Boom Waste Treatment Company (contractor).

*License disposal has to be applied every 6 months to Ministry of Environment).

CMU-Qatar Hazardous Wastes Disposal

- Chemical and Chemically contaminated wastes



CMU-Qatar Hazardous Wastes Disposal

- *All wastes are segregated and properly stored in plastic waste containers. Liquid wastes should be stored in plastic carboys and solid wastes in open mouth plastic containers.
- *Waste containers are available upon request.
- *Waste pick-up is scheduled at the end of each term.
- *Disposal is c/o Qatar Petroleum Hazardous Waste Treatment Center (contractor).
- *The waste contractor has profiled four (4) waste streams for CMU-Q. Each specific waste is reviewed and grouped under the proper waste stream.
- *Examples of wastes we have disposed in the past.

CMU-Qatar Hazardous Wastes Disposal

Sr. No.	Waste Name	Waste Profile Sheet (WPS) No.
1	Ex. Lab Chemicals Organic - Liquid	CMU-001
	Acetonitrile Solution	
	Nicotine Solution	
	Flammable Solution (mixed ethanol, methanol, others)	
	Dimethyl Sulfoxide (DMSO) Solution	
	Phenol-Chloroform Solution	
	Imidazole Solution	
	Chlorinated Solution (mixed chloroform/dichloromethane)	
	Paraformaldehyde Solution	
	Mixed Carboxylic Acids Solution	

CMU-Qatar Hazardous Wastes Disposal

Sr. No.	Waste Name	Waste Profile Sheet (WPS) No.
2	Ex. Lab Chemicals Inorganic - Liquid	CMU-002
	Lead Solution	
	Mercury Solution	
	Nitrate and Nitrite Solution	
	Hydrogen Peroxide Solution	
	Aluminum Chloride Solution	
	Hydroxylamine Hydrochloride Solution	
	Silver Solution	

CMU-Qatar Hazardous Wastes Disposal

Sr. No.	Waste Name	Waste Profile Sheet (WPS) No.
3	Ex. Lab Chemicals Organic - Solid	CMU-003
	Nicotine contaminated solids	
	Acrylamide contaminated solids	
	DMSO contaminated solids	
	Ethidium Bromide contaminated solids	
	Phenol-Chloroform contaminated solids	
	Mixed Carboxylic acids solids	
	Chlorinated contaminated solids (mixed chloroform/dichloromethane)	

CMU-Qatar Hazardous Wastes Disposal

Sr. No.	Waste Name	Waste Profile Sheet (WPS) No.
4	Ex. Lab Chemicals Inorganic - Solid	CMU-004
	Mercury contaminated solids	
	Silver solids and silver contaminated solids	
	Copper solids and copper contaminated solids	
	Nickel solids and nickel contaminated solids	
	Barium Dichromate solids	
	Chromium Oxide contaminated solids	