

	SOP-BCR-1.4	Spill Containment	Author: S. Clouthier  Approved: M. Wicha 	Rev: 1.0	Issued: 07/01/09 Revised: 7/13/12
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1.0 Purpose

SOP 1.4 details necessary measures and precautions for proper spill containment procedures.

2.0 Scope

SOP 1.4 is intended to cover all resources, personnel and equipment in the BCR laboratory.

3.0 Materials

No.	Name	Description	Storage Location
1.0	PPE (personal protective equipment)	Gloves and Gown, Mask or Eyeglasses (as necessary)	Bench top in room 026-328S

4.0 Procedures

- 4.1 Immediately at the discovery of a spill employees should evaluate the amount and type of material involved. If the material is a known flammable or combustible, remove all sources of ignition and warn employees in the area of the fire/explosion hazard and whether evacuation is necessary until the spill has been contained
- 4.2 Contain the spill.
 - Prevent excessive contamination by placing a barrier around the spill with towels, sand or other absorbent material. Various Spill Kits are located near 026-328S entrance.
 - Appropriate personal protective equipment (PPE) should be worn during all phases of the clean up given knowledge of the material and material safety data sheet (MSDS) requirements.
 - If necessary, barricade air vents, drains, and other floor openings. Close interior doors and open a window to allow for ventilation of the spill area if possible.
- 4.3 Evacuate the spill area. **Do not allow anyone in the area.**
 - If anyone has been contaminated and needs medical attention Dial 9-1-1. Contaminated employees should remain in the area to prevent further contamination of the facility.
- 4.4 Clean up the spill only if you have been trained of proper procedure and have the appropriate spill kit. For small spills don appropriate PPE to protect yourself from exposure. For large spills call HazMat to perform clean up. **Never attempt to clean a Mercury spill.** In event of a mercury spill call OSEH for spill containment at the number listed below.
 - Dispose of waste materials appropriately. Place any contaminated material, gloves and other disposables into a labeled biohazard bag and place into either another labeled bag or container. Ensure lids are firmly sealed on all waste containers when spill clean up is complete and call HazMat for a pickup. Keep waste containers in a secured area until received by HazMat.
 - Decontaminate Re-Usable Equipment. All potentially contaminated re-usable tools or protective equipment used in the clean up should be decontaminated appropriately. This includes dustpans, brooms, forceps, buckets etc. Anything that cannot be effectively cleaned (cleaning solution makes contact with all surfaces) must be disposed of as waste.
 - Spills containing biological hazards should be decontaminated by soaking any contaminated material with a mixture of 10% bleach and water.
 - Any glass, needles or other sharp objects that may puncture the skin will not be picked up by hand. Only mechanical means such as a brush and dustpan, tongs or forceps are allowed. If you do not have such equipment available, contact HazMat for clean up.
 - If spill is beyond employee's capacity to clean it up determine appropriate department to contact for clean up support:
 - BIOLOGICAL AND DRUG SPILLS: (includes blood, blood products, human waste, biotherapeutics, drugs ready for administration to patients)
Call Environmental Services (24 hours/7 days a week): 2-5326

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- **HAZARDOUS DRUGS AND CHEMICALS, MERCURY, AND RADIOACTIVE MATERIALS:** (includes drugs that are in pure form such as chemotherapy agents, chemicals that are toxic, corrosive, flammable or hazardous as listed by the EPA, and preparations containing radioactive isotopes or radioactive sources)
Call Safety Management Services (Mon- Fri, 7:30am-4:30pm) 764-4427
Call OSEH Haz Mat (Weekends and Holidays 4:30pm-7:30am) 763-1131

4.5 Hazardous Material Exposure.

- If you believe you were exposed (skin puncture or splash to eyes, or mucous membranes) to a hazardous material that had not been appropriately decontaminated, follow these recommended steps
 - Skin exposure: Vigorously wash affected skin with plenty of soap and water while removing contaminated clothing and shoes.
 - Eye exposure: Wash eyes for at least 10 minutes with copious amounts of water, lifting the upper and lower eyelids occasionally.
 - Seek follow-up medical attention by contacting your supervisor for referral to the **Mworks Clinic (998-8788)**

5.0 Applicable References

- 1.0 University of Michigan Health Systems Hospital Waste Management Spill Clean Up Guide: <http://www.med.umich.edu/i/sms/Waste/SpillGuide.htm>
- 2.0 University of Michigan Health Systems, Hospital Waste Management: Chemical Spill Response: <http://www.med.umich.edu/i/sms/Waste/spill.htm>

6.0 Change Description

Revision	Date	Reference	Description of Change
1.0	7/13/12	CL	Updated room locations