

Emergency measures with biological materials



**ALL ACCIDENTS/INCIDENTS MUST BE REPORTED TO THE
LABORATORY MANAGER AND THE BIOLOGICAL SAFETY OFFICER**
ACCIDENT/INCIDENT FORM: www.uqtr.ca/formulaireaccident

FOR ANY EMERGENCY: 911 (INTERNAL) OR (819) 376-5050

HOSPITAL CONSULTATION

- ✓ For all cases of ingestion of biological materials.
- ✓ For all accidents involving **risk 2 biological materials**.
- ✓ If there are signs of infection or fever after your exposure.
- ✓ In all cases, bring the technical data sheet of the biological material.

CONTAINMENT FAILURE

Examples: ventilation, BSC, or electrical failure

- ✓ Stop all manipulations;
- ✓ Close tubes and vials;
- ✓ Remove personal protective equipment and exit the room;
- ✓ Notify the laboratory manager and the biosafety officer;
- ✓ When the situation is resolved, wait 30 minutes before re-entering the room.

MAJOR SPILL

- ✓ Evacuate personnel and exit the room;
- ✓ Notify the laboratory manager and the biological safety officer;
- ✓ Signs should be posted to indicate that no is prohibited;
- ✓ Wait for instructions for the final disposition.

CUTS AND STINGS

Step 1

- ✓ Wash the wound with soap and water.



Step 2

- ✓ Use the first aid kit, apply appropriate skin disinfectant and a bandage.
- ✓ Check for infection in the next few days and seek medical attention if necessary.



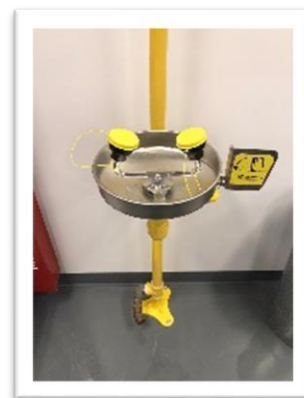
Step 3

Report the accident to your laboratory manager and complete the accident report www.uqtr.ca/formulaireaccident



EYE CONTACT

- ✓ Use the area eyewash for at least 15 minutes.
- ✓ Check for infection in the next few days and seek medical attention if necessary.
- ✓ Report the accident to your laboratory manager and complete the accident report www.uqtr.ca/formulaireaccident



MINOR SPILL

Step 1

- ✓ Put on personal protective equipment.



Step 2

- ✓ Cover spill with paper towels and moisten with appropriate disinfectant for at least 10 minutes.



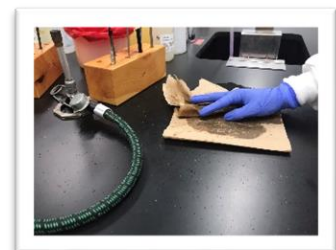
Step 3

- ✓ Use tongs to pick up broken glass and place it in a rigid container for disposal.
- ✓ Dispose of paper towels and other contaminated materials in a biohazard garbage can.



Step 4

- ✓ Clean equipment near the spill.
- ✓ Wash surface again with disinfectant.
- ✓ **INSIDE A BSC:** It is important to leave the BSC running during the decontamination procedure and wait for at least 10 minutes before resuming work.



Step 5

- ✓ Remove contaminated PPE, wash hands and put on clean PPE before returning to the lab.



SPILLING IN A CENTRIFUGE WITHOUT A SEALED CUP

- ✓ If any tubes are broken or suspected to be broken while the centrifuge is running, stop the motor;
- ✓ Leave the lid closed for 30 minutes to allow aerosols to settle;
- ✓ If the accident is only discovered after the centrifuge has been switched off, close the lid immediately and wait 30 minutes;
- ✓ Put on personal protective equipment;



- ✓ Move the buckets into the BSC
- ✓ Intact, plugged tubes can be disinfected for processing;
- ✓ Use tongs to pick up glass debris and place in a rigid container for disposal;
- ✓ Place buckets and the rotor in a (non-corrosive) disinfectant bath;
- ✓ Disinfect the centrifuge bowl. Cover spill with paper towels;
- ✓ Thoroughly moisten paper towels with appropriate (non-corrosive) disinfectant according to contact time and concentration to inactivate biological material;
- ✓ Clean a second time with the same disinfectant, rinse with water and dry the centrifuge;
- ✓ Dispose of paper towels and other contaminated materials in a biological waste garbage can;
- ✓ Remove contaminated PPE, wash hands and put on clean PPE before returning to the lab.



SPILLING INTO A CENTRIFUGE WITH SEALED CUPS

- ✓ Move the cups into the BSC and open them carefully;
- ✓ Intact, plugged tubes can be disinfected for processing;
- ✓ Use tongs to pick up broken glass and place in a rigid container for disposal;
- ✓ Place cups in a (non-corrosive) disinfectant bath;
- ✓ Dispose of paper towels and other contaminated materials in a biohazard garbage can;
- ✓ Remove contaminated PPE, wash hands, and put on clean PPE before returning to the lab.





Reference Program:
Biosafety management

Emergency measures with biological materials

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Approval: Pascal Daigle, Director, SPP

History of Changes and Approvals

| Created by: | Marie-Eve Ducharme | Date | 2022 /10 /24 <small>YYYY/MM/DD</small> |
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| Date of change | Description of the change | | |
| <small>/ /</small> <small>YYYY/MM/DD</small> | | Prepared by: | |
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