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Section: Laboratory Safety Manual	Subject Title: Chemical Spill Control	
Issued by: LABORATORY MANAGER	Original Date: April 20, 2001	
Approved by: Laboratory Director	Revision Date: October 22, 2003	

Policy:

The Mount Sinai Hospital (MSH) is responsible to protect patients, visitors, staff and property from hazardous or potentially hazardous chemical spills. MSH will provide a fast and safe means of containment and clean up of hazardous spills.

Purpose:

In the event of a spill, competent, prompt action is necessary for immediate clean-up to reduce and eliminate the hazards present.

Responsibility:

Management and employees

Key Elements:

- Chemical spills at MSH
- Chemical spills at St Patrick Site
- Spill Control Materials

Related Documents:

Emergency Procedure Manuals Home	Code Brown

Procedure:

1. Mount Sinai Hospital

Small Spill: A small spill will be defined as less than 1 litre and no toxic fumes/vapours. A **manageable spill** is a situation in which an individual who is competent and has been trained, can safely contain, clean up and dispose of the spill without risk to themselves or others.

1. If the spill is in a public area such as a corridor, warn others to leave the area.
2. If the spill is manageable the individual may initiate the clean up process, using items found in Spill Kits, in accordance with the specific guidelines of the material or MSDS (material safety data sheet) and advise their supervisor/manager.
3. Use appropriate personal protective equipment (laboratory coat, gloves, face shield or goggles, etc.).
4. Use forceps or heavy gloves to pick up any broken glass and discard into a sharps container.
5. Environmental services may be paged through locating to provide further clean-up of the spill.

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2. Mount Sinai Hospital

Large spill: A large spill will be defined as more than 1 litre and/or toxic fumes/vapours. **An unmanageable spill** is a situation in which an individual is not competent, untrained or simply unable to safely contain, clean up and dispose of the spill without risk to themselves or others.

IN ALL INSTANCES, IF IT HAS BEEN DETERMINED BY THE PERSON IN CHARGE THAT A SPILL CANNOT BE HANDLED IN A SAFE, COMPETENT MANNER BY HOSPITAL STAFF, OR, IF THE NATURE OF THE SUBSTANCE CANNOT BE DETERMINED, THE USER DEPARTMENT WILL ACTIVATE THE FIRE ALARM/PULL STATION AND CALL LOCAL 5555 IN ORDER TO OBTAIN THE ASSISTANCE OF THE EMERGENCY RESPONSE TEAM, OR THE FIRE DEPARTMENT.

INDICATE: **CODE BROWN**

1. The individual will provide communications with the following information (repeat twice):
 - < Name of reporter
 - < Name of Supervisor or person in charge in the user department
 - < Location of spill
 - < Substance involved and type of spill
 - < Extent of spill
2. If safe to do so the reporter will remain at the scene until the arrival of the Emergency Response Team, or leave the safety zone only when directed to by the ERT Leader, the Toronto Fire Department or when a Code Green is announced.
3. The Supervisor/Manager must ensure that the following information about the material spilled is available for those involved in the clean-up:
 - < proper classification
 - < appropriate equipment is available
 - < necessary precautions are taken
 - < appropriate expertise is available
 - < external resources are requested, if necessary
4. Ensure that clean-up is done in a safe manner, using the information available on the MSDS.
5. If a Code Brown is called the supervisor will provide the appropriate information pertaining to the spill to the Emergency Response Team and will assist in clearing the area of visitors, non-emergency response personnel and workers as directed by the Team.
6. Will initiate an Incident Report and an investigation process, which will be forwarded to the Department of Occupational Health & Safety

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TML St. Patrick Site

1. Notify all individuals in the immediate vicinity of the spill. If necessary, they should move a safe distance away from the spill location. Barricade the spill area with floor signs or yellow barrier tape to notify people to keep away from the hazard.
2. Identify the spilled material, if necessary by checking labels, shipping papers and/or Material Safety Data Sheets. Identify any immediate hazards, including: flammability, toxicity and any surrounding or contributing hazards.
3. For flammable or combustible liquids, eliminate all potential sources of ignition immediately.
4. Obtain the spill control materials. Each laboratory should have basic spill control materials, as a minimum, spill control pillows, plastic bags and nitrile gloves.
5. Wear appropriate personal protective equipment (protective clothing, goggles or face shield, gloves, footwear [and respirator if indicated]).

Note: Ventilate the spill area if possible. Vapors will be emitted from the spill, regardless of the size. Open doors, and if possible windows, to an outdoor fresh air environment.

6. Estimate the volume of the spill and place an appropriate number of spill control pillows on the spill or encircle large spills with spill control socks to prevent their spread. Place the pillow on the spill and allow the absorptive action of the spill control pillow to absorb the spill.
7. Use forceps or heavy gloves to pick up any broken glass. Discard the glass into the broken glass bucket.
8. Place pillows in yellow polyethylene bags. Seal and label contents.
Note: Spill control pillows DO NOT contain any chemicals designed to make liquids less toxic, hazardous or flammable. Liquids, when contained in any absorbent material, will continue to be unsafe. Therefore, exercise extreme care when handling, storing or disposing of spill control pillows containing such liquids.
9. For a spill of liquid acid or alkali, use the appropriate neutralizer to finish the cleanup. See instructions on neutralizer bottle.
10. For a spill of a dry chemical, sweep up the chemical with a dustpan and broom and dispose of into a yellow polyethylene bag. Label
11. For a spill of a dry chemical or after the use of neutralizers, wash the surface with detergent and water and clean by ordinary means.
12. Double bag the yellow polyethylene bag with a second yellow polyethylene bag. Label it and transfer it to the appropriate room of the chemical storage area (bunker).

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13. Inform the Supervisor or designate. Document the spill on the Employee Incident Report and give it to the Supervisor.

RESOURCE INFORMATION

For further information, see Hazardous Chemicals: Information and Disposal Guide. 2nd or 3^d edition.

SPILL CONTROL MATERIALS

Clean up spills in accordance with MSDS.

MSH	Spill Kit - Microbiology Room 1470	12 pads, 16" x 20" 3 SOCs, 3" x 12" 2 Pillows, 18" x 18" Forceps 2 Flammable Solvent Pure-Paks	Goggles Nitrile Gloves 3 Disposal bags Emergency Response Handbook
	Spill Kits - Chemistry Lab Supply Room 653	Caustic (Alkaline) Spill Kit 1 Alkali Neutralizer Unit Spill Pacs 3 Absorbent Unit Spill Pacs 5 Plastic Disposal Bags & ties 1 Goggles 1 Pair Gloves 1 Sponge 2 Scoops Product Insert (Instruction Sheet) Acid Spill Kit 1 Acid Neutralizer Unit Spill Pacs 3 Absorbent Unit Spill Pacs 5 Plastic Disposal Bags & ties 1 Goggles 1 Pair Gloves 1 Sponge 2 Scoops Product Insert (Instruction Sheet)	Flammable Solvent Spill Kit 1 Flammable Solvent Pure-Pak 3 Absorbent Unit Spill Pacs 5 Plastic Disposal Bags & ties 1 Goggles 1 Pair Gloves 1 Sponge 2 Scoops Product Insert (Instruction Sheet)
St Patrick Site	Spill Cart - 12th floor Reagent room	3" x 4' spill socks - 10	1 L spill pillows - 12
		2 lb dry bottle of NeutraAcid	2 lb dry bottle of NeutraBase
		1 qt non-sparking scoop Tyvek QC Overalls	Jumbo pH paper Goggles
		Silvershield gloves	Nitrile gloves
	Spill Control Bins - 12th and 13th floors	20 Sorbent pads 17" x 19 2 Sorbent socks 3" x 48" 2 Sorbent pillows 8" x 18" 1 Pair Nitrile Gloves	Spill response pocket guide