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| **Hazardous Chemical Spill Cleanup**  |
| **Purpose** | This procedure provides instructions for Hazardous Chemical Spill Cleanup. |
| **Definitions** | *Small spill* – less than 50 mL, or manageable by employee.*Large spill* – greater than 50 mL, or unmanageable by employee.*Safety data sheet (SDS)* – can be accessed through the Children’s intranet. * Access from Star Net. Choose “Emergency & Safety” tab. Choose the “MSDS Online” link.
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| **Supplies** | * Personal Protective Equipment (PPE)
	+ Gloves (nitrile)
	+ Laboratory coat
	+ Eye protection
	+ Face shield
* Spill kit containing sorbents
	+ Acid handler or Spill-X-A: acid spills
	+ Base control or Spill-X-C: caustic spills
	+ Solvent handler or Spill-X-S: solvent spills
	+ Chlorine control: chlorine spills
* Large spill kit
	+ Contains sorbent blanket, socks
* Disposal bags
* Dustpan/scoop and brush
* pH paper
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| **Procedure** | Follow the activities in the table below to clean up Chemical Spills. |
|  | **Step** | **Action** |
|  | 1 | Small spills may be safely contained by laboratory staff.For large spills, call Security.* Minneapolis: 5-7777
* St. Paul: 1-8899

If requesting assistance be prepared to give as much information about the incident as possible.* Spill location
* Name of substance spilled
* Type of spill (liquid, vapor, etc.)
* Size or quantity of spilled substance

Protect yourself and others.* Avoid contact with the material.
* Evacuate if necessary.
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|  | 2 | **Employee Exposure**1. Obtain assistance!
2. Contact Security (recommended to have a co-worker/employee contact Security).
	* Minneapolis: 5-7777
	* St. Paul: 1-8899
3. Remove contaminated clothing immediately. Consider carefully cutting or tearing clothing to avoid exposure with the face and head.
	* Have a co-worker/employee contact EVS or the OR for a set of scrubs.
4. Proceed to nearest eyewash station or safety shower.
5. Flush with water for a minimum of 15 minutes.
6. Report to Employee Health Service or United or Abbott Northwestern Emergency Department.
7. Contact laboratory management.
8. Complete Employee Incident Report.
* <https://starnet.childrenshc.org/forms/EmployeeIncident/>
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|  | 3 | Secure the area* Do not walk through or allow others to walk through the spilled material.
* Be sure no one enters the spill area without appropriate PPE.
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|  | 4 | Remove all sources of ignition. |
|  | 5 | Obtain SDS. |
|  | 6 | Don appropriate PPE for the type of spill. At a minimum, this includes a lab coat, gloves, and eye protection. |
|  | 7 | Apply appropriate sorbent, e.g. acid handler, chlorine control, to spill. * Form a dike first, then cover rest of spill.
* Avoid working in vapors and splashing.
* Apply until liquid is covered and no wet areas are seen.
* Mix with a nonreactive device, such as a plastic scoop, until mixture is dry.
* pH the end product after the neutralization reaction has subsided to determine the degree of neutralization.
* Add additional sorbent if necessary.
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|  | 8 | Dispose of waste into yellow bags and label as hazardous waste. |
|  | 9 | Contact laboratory management and the hospital Safety Manager. |
|  | 10 | Do not transport any contaminated materials out of the affected area until directed to do so by the hospital Safety Specialist. Spill waste should be taken to the Hazardous Waste room. |
|  | 11 | Complete a Safety Learning Report. |
| **Supporting Documents** | [912.02 Hazardous Materials Spill](http://khan.childrensmn.org/manuals/policy/900/005313.pdf)[975.00 Chemical Emergency Response Plan](http://khan.childrensmn.org/manuals/policy/900/013426.pdf)[1067.00 Work Related Injury/Illness Reporting and Management](http://khan.childrensmn.org/manuals/policy/1000/004975.pdf)[SA 8.01 Relocation and Evacuation](http://khan.childrensmn.org/manuals/lab/sop/gen/safety/sa/204262.pdf) |
| **References** | CLSI. *Clinical Laboratory Safety; Approved Guideline – Third Edition.* CLSI document GP17-A3. Wayne, PA: Clinical and Laboratory Standards Institute; 2012. |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | Carol Cram |  | Initial Version |
|  | 2 | Kerstin Halverson | 07/01/03 |  |
|  | 3 | Carol Buhl | 07/17/15 | Reformatted to CMS.Renumbered from 13.2.Added Definitions.Added Supporting Documents.Added References. |