|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | | | | | | |
|  | | | | | | |
| **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 | | | | | | |
| **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. | | | | | |
|  |
|  | 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/> | | | | | |
|  | 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. | | | | | |
|  | 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. | | | | | |
|  | 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. | | | | | | |
|  |  | | |  | | |  |
| **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. | |