


JOB SAFETY ANALYSIS		
Worksheet Number or Identifier: Laboratory Job Hazard Analysis		
Job/Operation Title: Clean up of Chemical Spill		Date: 04/16/2021
Department/Division/Section: Environmental Health and Safety		Developed By: Chris Frydenlund
Person(s) Performing This Job: Students, faculty and staff		Reviewed By: Paula Tate
Start Date: All Spring, Summer, and Fall semesters.		Duration: 24/7

Task/Step	Potential Hazards	Recommended Safe Job Procedures
1. Assess whether the spill is too large to contain by laboratory personnel.	1. Exposure to hazardous material such as toxic, poison, carcinogen, mutagen, teratogen, blood borne pathogen. 2. Exposure to toxic chemicals related to use of 2. Exposure to needles/sharps	Observe all hazard and warning signs Ensure everyone leaves the area in an orderly manner and alert other personnel in the area. Contact EH&S at *7011 if the damage is too large to handle Do not handle materials unless you are following safe procedures Do not recap needles or pickup broken glass by hand. Maintain situational awareness and inform supervisor of any unusual conditions Ensure all general and lab specific safety training is completed and passed.
2. Containing spills	1. Reference the correct SDS 1. Penetration by sharp objects 2. Exposure to toxic chemicals and byproducts.	Wear appropriate PPE for the work involved Maintain situational awareness and inform supervisor of any unusual conditions Ensure all other hazardous material is handled before handling broken glass. Do not pick up sharps or broken glass by hand. Use tongs to pick up large pieces of glass and dispose in a penetration proof container. Sweep smaller pieces of glass with broom and add to penetration proof container.

Task/Step	Potential Hazards	Recommended Safe Job Procedures
1. Assess whether glass contained hazardous material or any blood borne pathogens	1. Exposure to hazardous material such as toxic, poison, carcinogen, mutagen, teratogen, blood borne pathogen. 2. Exposure to toxic chemicals related to use of 2. Exposure to needles/sharps	Observe all hazard and warning signs Contact EH&S at *7011 if the damage is too large to handle Do not handle materials unless you are following safe procedures Do not recap needles or pickup broken glass by hand. Maintain situational awareness and inform supervisor of any unusual conditions Ensure all general and lab specific safety training is completed and passed.
2. Assess spilled chemicals	1. Physical and/or chemical hazards 2. Unknown chemicals and/or chemical mixtures	Evacuate laboratory personnel and alter personnel in the general area Read the correct SDS found in class or on BioRaft Contact Police/ 9-11 or EH&S at 903.566.7011
2. Contain and dispose of chemical spill	1. Penetration by sharp objects 2. Exposure to hazardous chemicals related to laboratory work.	Wear appropriate PPE for the work involved Maintain situational awareness. Contain the spill using vermiculite or appropriate, "sock." Cover spill with compatible material from spill kit. Dispose of material in an appropriate bin (call EH&S if unsure). Dispose of sharps, using an appropriate tool, into the same container.

POTENTIAL HAZARDS OF THIS JOB

Hazards	Prob.	Sev.	Consequences
Sharp penetration	2	2	
Blood borne pathogens	1	2	Hazardous chemicals
All other hazardous materials	2	2	Penetration by sharp object
Radioactive Material	1	3	Toxin/poison Radiation Burns Carcinogen/teratogen/mutagen

HAZARD CONTROL MEASURES USED FOR THIS JOB

<p>Administrative Controls:</p> <ul style="list-style-type: none"> Emergency procedures Fire protection program Housekeeping practices Inspections (ongoing) work areas, equipment, tools, etc. Inspections (pre-job) - work areas, equipment, tools, etc. Material handling procedures Monitoring (biohazards) Operating procedures (process) Policy or policies Safety and health program Safety checklists (use to document inspections) Safety Data Sheets (SDS) Trained personnel Work practices Work schedules (adjust time) 	<p>Required Training:</p> <ul style="list-style-type: none"> Hazard Communication (HAZCOM). Laboratory safety. Personal protective equipment (PPE). Waste control training
<p>Engineering Controls:</p> <ul style="list-style-type: none"> Chemical reduction Chemical substitution 	<p>Required PPE:</p> <ul style="list-style-type: none"> Clothing - long pants Eye protection Appropriate gloves Side shield
<p>Required Permit(s):</p> <p>none</p>	<p>Other Information:</p> <p>none</p>