

CERTIFICATION OF HAZARD ASSESSMENT

INTRODUCTION

"Hazard assessment" is the process (required by law) of identifying the hazards associated with defined task, prescribing personal protective equipment and other relevant protection measures which must be employed to reduce the risk from the hazards. "Certification of Hazard Assessment" is a written document -- such as the one on the following 2 pages -- detailing the hazard assessment(s) for (a) particular task(s). The supervisor is responsible for ensuring that hazard assessments are performed and the certification(s) written and posted. The supervisor may delegate or contract the labor involved in this process, but cannot reassign or disclaim the responsibility.

INSTRUCTIONS

- Save the attached hazard assessment example to your hard drive.
- **It must be modified to meet the specific hazards of your work area.** This includes removing or adding hazards as applicable to your work area.
- Certification(s) of hazard assessments **must be posted** -- tacked or hung in a visible place -- in every work room listed in the "location(s)" field.
- The fields at the beginning -- date(s), location(s), supervisor, and signature -- must be completed.

Post signed certification in work room.

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| Supervisor (print): Jeff J. Volenec | Assessment Date(s): January 24, 2014 | |
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| Signature: | Location(s) posted: Lilly 2-366 | |
| Hazards | Task: hands-on work or being within reach ^(a) of potential hazards of described activity/items: | Minimum Requirements |
| Skin/eye damage or irritation, poisoning | Volume < 50 mL corrosive liquids (pH < 4 or > 10), [anthrone assays, TCA precipitations, extractions for P and K analysis] or any volume < 50 ml organic liquids [Ninhydrin assays, washing post-NDF, ADF and ADL filter bags with acetone]. | Lab coat, gloves; wear closed shoes. Shower and eyewash must be available in work area. |
| Severe skin irritation or damage, severe eye irritation or damage | Work with 50 mL < volume < 1 L of corrosive liquids (pH <4 or pH > 10), [anthrone assays, P and K extractions] or any 50 mL < volume < 1 L organic liquids [preparation of Bradford assay reagent, RNA isolations, Northern blots]. | Appropriate goggles, lab coat, gloves; other skin covered to ankles, wrists. Closed shoes. Shower and eyewash must be available in work area. Use hood for RNA extractions and Northern gels. |
| Severe permanent skin or eye damage or scarring, loss of function and/or loss of vision. | Work with volume > 1 L of corrosive liquids (pH < 4 or pH > 10) [preparation of anthrone reagent, preparation of 72% sulfuric acid for ADL digestions] or any volume > 1 L organic liquids [stock solutions for RNA extractions]. | Appropriate goggles, lab coat, gloves; other skin covered to ankles, wrists. Closed shoes. Shower and eyewash must be available in work area. Use hood for RNA extractions and Northern gels. |
| Skin or eye tissue injury. | Handling, moving, pouring, or any use of cryogenic liquids. [Grinding tissues for RNA extractions. Preparing tissues in the field. Removing samples from -80 freezers.] | Wear protective gloves or two layers of gloves when grinding tissues. Clothing worn the wrists and ankles. Closed shoes. For grinding tissues, do so in a hood. |
| Systemic poisoning, reproductive effects, skin or mucous membrane irritation. | Work with or around hazardous solids/liquids (toxin, reproductive toxin, mutagen, carcinogen, irritant). [Preparing solutions and making gels for SDS-PAGE electrophoresis, running RNA extractions, and preparing RNA gels.] | Lab coat, gloves. Closed shoes for extractions. For RNA extractions use a hood due to the chloroform. For RNA gel work use a hood because of the formaldehyde. |
| Cell damage, area contamination. | Radioactive materials Work to be done in 2-366 on the far east bench only. At this time research does not involve active use of radioactive materials. **At this time 2-366 is not actively doing radioactive work and follows rules for Type D radioactive use classification: No storage of foods/drinks in lab. No disposal of food/drink containers in the lab. | Lab coat, two layers of gloves; closed shoes. Shielding required for using the P32 isotope. Be aware of clean up procedures, and always have a Geiger counter in use. |
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