**HAZARD ASSESSMENT**

Use the hierarchy of controls to document the hazards and the corresponding control measure(s) involved in each step of the procedure.

Consider *elimination or substitution* of hazards, if possible.

***Engineering Control(s):*** items used to isolate the hazard from the user (i.e. fume hood, biosafety cabinet).

***Administrative Control(s****):* policies/programs to limit the exposure to the hazard (i.e. authorizations, designated areas, time restrictions, training).

***Required PPE***: indicate PPE including specific material requirements if applicable (i.e. flame resistant lab coat, type of respirator or cartridge).

Name: \_\_\_\_\_\_\_EXAMPLE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_EXAMPLE\_\_\_\_\_\_\_

Building & Room: \_\_\_\_\_\_\_\_\_\_\_\_\_EXAMPLES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Task** | **Hazard** | **Engineering Control(s)** | **Administrative Control(s)** | **Required PPE** |
| **Operating the oven** | Hot surfaces - *Burns to hands/forearms* |   | Training on how to operate the oven |  Thermal gloves, safety glasses, lab coat, closed shoes, long pants |
| **Operating the autoclave** | Hot steam – *burns to hands, arms, face, torso* |   | Training on what the indicators on the instrument mean | Elbow-length thermal gloves, safety glasses, lab coat, closed shoes, long pants |
|  | Exposure to biohazardous materials - *illness* |  | Do not overfill the bags | Nitrile gloves, safety glasses, lab coat, closed shoes, long pants |
| **Working on a Schlenk line** | Overpressure event – *lacerations from glass and chemical exposure* | Work in a fume hood with the sash as closed as possible | Training on how to properly operate the line | Safety glasses/splash goggles (if working with corrosive liquids), laboratory coat, gloves, closed shoes, long pants |
|  | Exposure to cryogenic liquid when preparing and emptying the cold trap – *cold burns, blisters, and frostbite* |  |  | Face shield, safety glasses, lab coat, thermal gloves, closed shoes, long pants |
| **Using an acid/base bath** | Exposure to corrosive liquids - *irreversible damage to eyes and/or skin* | Work in a fume hood if possible | Training on how to use the bath | Laboratory coat, apron (optional), rubber gloves, closed shoes, long pants, splash goggles |
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**TRAINING RECORD**

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| --- | --- | --- | --- |
| **Print Name** | **Signature** | **Trained By** | **Date** |
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