Biosafety Standard Operating Procedures – Chemical Agent

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| Principal Investigator: | | | | | | | | **Click or tap here to enter text.** | | | | | | | | | | | | IBC Protocol Number: | | | | | | **Click or tap here to enter text.** | | | | |
| 1.0 Chemical Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name: | | | | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | |
| Compound/Chemical of origin: | | | | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | |
| GHS for compound of origin: | | | | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 Training Requirements: | | | | | | | | | *It is mandatory all lab personnel complete* ***Laboratory Safety Essentials (LSE)*** *per HSC OP 75.01 TTUHSC Safety Programs and the IBC Bylaws, by checking “I Agree” you are confirming that all personnel handling hazardous chemical agents have been appropriately trained in use of agent and emergency procedures related to accidents and/or exposure events.* | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | I Agree | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 Personal Protective Equipment, Use, & Storage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 List all PPE required to work with chemical(s); if not applicable state N/A per agent. | | | | | | | | | | | | **Click or tap here to enter text.** | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |
| 3.2 Chemical Use & Constraints | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| List any constraints on this material as they apply to personnel: | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 What room will chemical(s) be **stored** in? | | | | | **Click or tap here to enter text**. | | | | | | | | | | 3.4 What room will chemical(s) be **used** in? | | | | | | | | | | **Click or tap here to enter text**. | | | | | |
|  | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | |
| 3.5 Describe how you will use the above listed agents: | | | | | Procedures: Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Concentration: Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Frequency: Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 Max quantity used at any time (mg, ml, etc.): | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | 3.7 Max quantity expected in laboratory at any time: | | | | | | | | | | Click or tap here to enter text. | |
|  | | | | |  | | | | | | | | | | | | | |  | | | | | | | | | |  | |
| 3.8 Procedures will (list chemical next to potential hazard): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Generate dust | | | | | | | Generate aerosol | | | | | | | | | Involve sharps | | | | | | | | Potential contamination of hands and/or clothing: | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | |  |
| 4.0 Engineering Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.1 Describe procedures established by PI to reduce personnel exposure per agent. | | | | | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| 4.2 Containment: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open Bench | | | | Fume Hood | | | | | | | | | Draft Shielded Scale | | | | | | | | | Other (List Other here: Click or tap here to enter text.) | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 Animal Use: | | Not used in animals  (Skip to 6.0 if not used in animals) | | | | | | | | | | | | | | | Used in animals (if used in animals identify risks related to use of agent in animals in 5.1) | | | | | | | | | | | | | |
| 5.1 | | A.  Sharps hazard | | | | | | | | | B.  Aerosol hazard | | | | | | C.  Hazards from animal waste, bedding, and/or cage handling | | | | | | | | | | | D.  Physical hazard from animal/lesions on animals related to agent | | |
|  | |  | | | | | | | | |  | | | | | |  | | | | | | | | | | |  | | |
| 5.2 | | List the agents used in animals: | | | | | | | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |
| 5.3 | | Describe means to mitigate hazards produced from section 5.1 per chemical agent. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 1. Sharps Hazard: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 1. Aerosol Hazard: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 1. Hazards from animal: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 1. Physical Hazard: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 Waste Disposal: Indicate what type of waste this agent will produce | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | Only select if being used in animals: | | | | | | | | | | | | |
| Liquid | Solid | | | | | | | Contaminated Reusable Item | | | | | | | | | | Animal Tissue | | | | | Animal Carcass | | | | Animal bedding/waste/cage | | | |
| Unused Chemical | | | | | | | |  | | | | | | | | | |  | | | | |  | | | |  | | | |
|  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |
| 6.1 Describe how you will dispose of each waste selected above: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liquid: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
| Solid: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
| Contaminated Reusables: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
| Unused Agent: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
| Animal Waste: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
| (Specify for each type of animal waste) | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.3 Describe hazards to LARC Staff: | | | | | | Click or tap here to enter text. | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 Accidental Cleanup Procedures: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe methods to be used to address spills, including concentration and contact time of any cleaning or deactivating agents, spill kits and/or any other necessary supplies required for cleanup. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Small Spills: | | | | | | | | | | | | | | | | | | Large Spills: | | | | | | | | | | | | |
| Describe appropriate PPE: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | Describe appropriate PPE: ***Click or tap here to enter text.*** | | | | | | | | | | | | |
| Procedure for powder spill: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | Procedure for powder spill: ***Click or tap here to enter text.*** | | | | | | | | | | | | |
| Procedure for liquid spill: ***Click or tap here to enter text.*** | | | | | | | | | | | | | | | | | | Procedure for liquid spill: ***Click or tap here to enter text.*** | | | | | | | | | | | | |