

5. Procedures

The following controls are required for working with particularly hazardous substances:

A. Health and Safety Review

A hazard assessment must be conducted for any work activity involving use of particularly hazardous substances to ensure that proper controls are in place

The hazard assessment may determine that area monitoring and/or medical surveillance is necessary for ensuring the safety of the employees. Such a determination is likely to be made only when there is reason to believe that exposure levels for the substances planned to be used in an experiment could exceed OSHA established regulatory action levels or similar guidelines established by other authoritative organizations

B. Planning

Careful planning needs to precede any work involving use of particularly hazardous substances. This includes whenever the substance is to be used for the first time or whenever an experienced user carries out a new protocol that

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If experimental setup involving the hazardous substance is ongoing over a significant period of time, the hood should be rechecked at least quarterly to ensure adequate face velocity

Highly toxic gases must be used and stored in a vented gas cabinets that are connected to a laboratory exhaust system.

D. Process and Laboratory Equipment

Equipment used for the handling of PHS should be separated and clearly identifiable from general laboratory environment.

Laboratory vacuum pumps used with these substances should be protected by high efficiency scrubbers or HEPA filters and vented into an exhaust hood.

Motor-driven vacuum pumps are recommended because they are easy to decontaminate.

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H. Waste Management