

Environmental Health and Safety

GUIDELINES FOR USE OF PARTICULARLY HAZARDOUS SUBSTANCES

The OSHA Lab Safety Standard ([29 CFR 1910.1450](#)) specifically mandates that labs develop Standard Operating Procedures ([SOPs](#)) for handling “Particularly Hazardous Substances”, which they (OSHA) define as Select Carcinogens, Reproductive Toxins, and Acute Toxins. If you are unsure if a chemical falls into one of these categories, check the Safety data sheet (SDS) and the container label. Contact Environmental Health and Safety at x3227, if you have questions about the chemicals you intend use. (N(en)1T)-

b. LC50- The concentration of the chemical in air that will kill 50% of the test animals

- iii. Negative pressurization inside the cabinet relative to the lab
- iv. Access ports face velocities greater than 200 fpm
- v. 12-gauge steel construction
- vi. Treatment system connected to exhaust
- vii. Continuous gas monitoring system for highly toxic gases

V. References:

OSHA Lab Safety Standard ([29 CFR 1910.1450](#))

