

STANDARD OPERATING PROCEDURE

for

LABORATORY USE OF PESTICIDES

Instructions: Principal Investigators should complete this generic form whenever they use pesticides in laboratory experiments. You can edit the document name and other formatting aspects of the document so that it reads logically and smoothly; be careful to preserve the integrity of the SOP requirements.

Principal Investigator: _____

Location(s) (campus, building, room): _____

Pesticide(s) (names and active ingredients): _____

1. Purchasing: All purchases of this material must have written approval from the Principal Investigator or _____ before ordering. The user is responsible to ensure that a current Material Safety Data Sheet (MSDS) is obtained unless a current one is already available within the laboratory. The user is also responsible to ensure that a full copy of the pesticide label is available in the laboratory. Quantities of this material will be limited to _____, or the smallest amount necessary to complete the experiment.

2. Storage: Materials will be stored according to compatibility and label recommendations in a designated area: _____. Storage areas will be regularly inspected by _____ to ensure safety. Periodic inventory reductions will be scheduled.

3. Authorized personnel: Use of this material requires prior written approval from the PI or _____, Title: _____. Use will be limited to the following personnel (check all that apply):

Principal Investigator _____ Graduate students _____ Visiting Scientists _____

Technical staff _____ Post doctoral employees _____ Undergraduates _____

Other (describe) _____

4. Training requirements: The user must demonstrate competency and familiarity regarding the safe handling and use of this material prior to purchase. Training should include the following:

- Review of current MSDS and the pesticide label
- Review of the OSHA Lab Standard
- Review of the Chemical Hygiene Plan
- Laboratory safety training (EH&S)
- Special training provided by the department/supervisor
- Review of the departmental safety manual
- Safety meetings and seminars

5. Use location: Materials shall be used only in the following designated areas in room _____. Check all that apply:

demarcated area in lab (describe): _____

fume hood _____ glove box _____

other (describe): _____

6. Labeling. If pesticides from original containers are repackaged into secondary containers, then the secondary containers need to be properly labeled with the full name of the materials in the container, the concentration if a solution or mixture, the date and the name or initials of the person making the solution or repackaging the chemical, and the hazard word on the original pesticide (caution, warning, danger, or danger/poison).

Secondary containers of this material will be labeled as follows:

7. Personal protective equipment: Use the pesticide label to help determine proper personal protective equipment, particularly glove type, for working with these pesticides. Be aware that when pesticides are used in a hood, not all label-recommended PPE (e.g., respirators) will be required.

All personnel are required to wear the following personal protective equipment whenever handling this material (check all that apply):

Safety goggles _____ Chemical safety goggles _____ Face shield _____

Gloves (type/use):

Incidental Contact: _____

Extended Contact: _____

Lab coat _____ Rubber apron _____ Tyvek clothing _____

Respirator (type): _____

Other (describe): _____

8. Waste disposal: The authorized person using this material is responsible for the safe collection, preparation and proper disposal of waste unless otherwise stated below. Waste shall be disposed of as soon as possible and in accordance with all laboratory and University procedures. Some pesticide active ingredients can be deactivated - through oxidation, UV radiation, autoclaving (some combination of heat and pressure), etc. The manufacturer can provide advice about deactivation. If deactivation is possible, record that procedure below. Where Containerized Soil Leaching Evaporation Degradation Systems (CSLEDs) exist at CALS facilities, it may be possible to dispose of used materials on the CSLEDs. Anyone wishing to do so should confirm that protocol with Mary-Lynn Cummings, CALS Asst. Director for Occupational and Environmental Health, 5-2557.

Specific instructions for deactivation or waste disposal:

9. Decontamination: Specific instructions:

10. Exposures: Emergency procedures to be followed (from MSDS):

Skin/eye contact--symptoms:

Skin/eye contact--first aid:

Ingestion--symptoms:

Ingestion--first aid:

Inhalation--symptoms:

Inhalation--first aid:

11. Spills: Spill cleanup materials to be used, location of materials, PPE to be used, disposal of cleanup materials, etc. Please be as complete as possible:

12. Phone numbers (as appropriate for your location; Ithaca information provided)

Cornell Campus Police: 911 (accidents, spills)

Environmental Health and Safety: 5-8200

Gannett Health Center: 5-5155

13. Other: Special precautions, incompatible/reactive materials, useable shelf life, etc. Please be as specific as possible:

Prepared by: _____

Date: _____

Reviewed/Revised: _____

A copy of the completed SOP must be filed with the Cornell Chemical Hygiene Officer at EH&S,
125 Humphreys Service Building.