

STANDARD OPERATING PROCEDURE #706
USE OF CHEMICAL HAZARDS IN RODENTS

1. PURPOSE

This Standard Operating Procedure (SOP) describes the guidelines for the use of chemical hazards in rodents. Where an SOP exists for specific chemical hazards, that SOP must be followed.

2. CONSIDERATIONS

Hazardous chemicals and drugs are characterized as carcinogens, cytotoxins, anti-neoplastics, reproductive toxins, mutagens, and teratogens. This SOP aims to ensure that the potential Safety Data Sheet (SDS) for 157 Chemical Hazards should be

research staff and animal facility staff should be familiar with the SDS. _____ catalog, and

5.4. Pregnant or breast-feeding women should refer to the University Laboratory Safety Committee's (ULSC) Policy on Reproductive Health in the Laboratory prior to working with chemical hazards.

- 5.5. Storage precautions and transportation:
 - 5.5.1. All containers of hazardous chemicals/drugs must be clearly labeled, e.g., cytotoxic, and adequately stored when not in use.
 - 5.5.2. Keep containers tightly closed, preferably in a locked cabinet. Keep container in a cool, well-ventilated area away from sources of ignition. Refer to SDS for specific storage conditions.
 - 5.5.3. Storage and transport containers should be unbreakable, rigid, shock-resistant, leak-proof and made of a non-reactive material which can be easily cleaned and decontaminated in the event of a leak.
 - 5.5.4. Transport chemical hazard containers in a closed, leak-proof plastic bag, e.g., zip-lock bag.
 - 5.5.5. Dispose of empty containers by incineration through the Waste Management department.
- 5.6. Personal protective equipment (PPE) must be worn at all times when handling chemical hazards, in addition to any PPE requirements of the animal room. Wash hands after removing PPE.
- 5.7. Needles and sharps used with chemical hazards must be disposed of immediately in a sharps container. Do not bend or recap needles. Safety needles should be used whenever possible.
- 5.8. Thoroughly wash hands after handling or administering chemical hazards.
- 5.9. Clearly indicate the chemical hazard on the animal housing room door.
- 5.10. All cages housing animals that have been treated with chemical hazards must be clearly labeled with the following information:
 - 5.10.1. Name of agent
 - 5.10.2. Date(s) of administration
 - 5.10.3. Contact name
 - 5.10.4. The recovery date or the date cages are no longer considered hazardous, e.g., 7 days after the last administration.

6. PROCEDURES

- 6.1. The following personal protective equipment must be worn at all times when handling chemical hazards (in addition to the personal protective requirements of the animal room):
 - 6.1.1. 2 pairs of nitrile gloves or other appropriate chemical-resistant glove as per the SDS
 - 6.1.2. Gown or lab coat
 - 6.1.3. Disposable sleeve covers
 - 6.1.4. Procedure mask or N95 respirator
 - 6.1.5. Eye protection when there is risk of being splashed
- 6.2. All waste, e.g., PPE, absorbent pads, bedding, should be discarded as hazardous materials in a biohazard box for incineration.
- 6.3. Work areas should be protected from spills by placing an absorbent pad with an impervious backing (absorbent material) in the area. The absorbent pad should be disposed of as a hazardous waste (see SOP 706.02- Use of Chemical Hazards in Rodents).

- 6.5.4. Areas where chemical hazards are prepared or handled must be cleaned and decontaminated immediately following each procedure. Use a detergent solution followed by a 70% alcohol solution, or a chemical known to inactivate the chemical hazard, e.g., bleach, acetic acid, as described in the SDS.
- 6.6. Animal Handling and Husbandry:
 - 6.6.1. House rodents in microisolator cages with filter top lids.
 - 6.6.2. All animal handling, chemical hazard administration, and cage manipulations must be conducted in a certified chemical fume hood or in a Class II Type B1 or B2 BSC. 6.1 (a) (1) 82675 .9 (sr2-6.4 (i2.3 (w)-2.9 (n t)-13

SOP REVISION HISTORY

DATE	NEW VERSION
2023.09.08	1. PURPOSE

6.7. Cage washing:

6.7.1. Do not autoclave soiled cages before processing.

6.7.2. Wearing the following PPE when processing soiled cages:

6.7.2.1. Designated lab coat or gown

6.7.2.2. Nitrile gloves 0 Tc pP3 0.224 531.638 MICID 8 BDC -0.007 Tc 0.00 Tw -15.246 (4.224 Td(6.)-15.9 (7.)-15.9 (2.)-15.95c pP3 0.5 Tc 0 Tw 3.103 0 F(A)-8.6.96 1)-14.

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