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| Appendix A: Hazardous Materials information for AUP #       |
| Identity of Hazard: Ketamine/Xylazine |
| PI name:       | Building/Rooms:       | Vivarium:       |
| Provide a short description of the reagent(s): Ketamine/Xylazine is a euthanasia solution suitable commonly used in animal research. It is administered by intravenous injection. Ketamine is a schedule III controlled substance and requires registration with [EH&S Controlled Substances](https://ehs.ucr.edu/laboratory/chemical/controlled-substances). |
| **This material is hazardous for:**[ ]  Humans only[ ]  Animals only[x]  Humans and animals[ ]  For which animal species?       | **The reagent can be spread by:**[ ]  Blood[ ]  Feces/urine[ ]  Saliva/nasal droplets[x]  Does not leave animal[ ]  Other       |
| Describe any human health risk associated with this agent: Ketamine is a dissociative injected anesthetic (blocks sensory perception) that can provide pain relief and short-term memory loss. Risks associated with ketamine include cardiovascular, central nervous system, gastrointestinal, renal, and respiratory issues such as problems with attention, learning, and memory, induced dreamlike states, hallucinations, sedation, confusion, loss of memory, raised blood pressure, unconsciousness, and/or dangerously slowed breathing. |
| **The precautions checked below apply to this experiment:**[ ]  The researcher or his/her technicians are responsible for the feeding and care of these animals.[ ]  The following items must be assumed to be contaminated with hazardous material and must be handled only by the researcher or his/her technicians.

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| [ ]  Cage[ ]  Water Bottle[ ]  Animal Carcasses | [ ]  Bedding[ ]  Other       |

[ ]  Cages must be autoclaved before cleaning.[ ]  Label cages and remove label after decontamination.[ ]  Animal Carcasses must be labeled and disposed of as follows:

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| [ ]  Incineration[ ]  Bag and Autoclave | [ ]  Biohazardous Waste Container[ ]  EH&S will pick up (x5528) |

[ ]  All contaminated waste (soiled bedding or other animal waste) must be properly labeled and disposed of as follows:

|  |  |
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| [ ]  Incineration[ ]  Bag and Autoclave | [ ]  Biohazardous Waste Container[ ]  EH&S will pick up (x5528) |

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| **Personal Protective Equipment (PPE) Required:**[ ]  The following PPE must be worn/used in the room or when handling animals:

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| [x]  Lab Coat/Coveralls[ ]  Shoe Covers/Booties[x]  Disposable or Utility Gloves[ ]  Head Cover[ ]  NIOSH Certified Dust Mask | [ ]  Disinfectant Footbath[x]  Eye/Face Protection[ ]  NIOSH Certified Fitted Respirator; Type      [ ]  Other       |

[ ]  PPE must be removed before leaving the room.[ ]  PPE must be discarded or decontaminated at the end of the project.[ ]  Hands, arms, and face must be thoroughly washed upon leaving the room.[ ]  Full shower, including washing of hair, must be taken upon leaving the room.[ ]  Decontaminate room (Inform Lead Animal Technician when cage and/or room can be returned to general use. |
| Provide any other information needed to safely work in this designated area of research: Ketamine must be received, stored, maintained, and disposed of as a DEA Schedule III controlled substance. Users should wear lab coat (or vivarium-specific garb), safety glasses, and disposable nitrile, neoprene, or natural rubber gloves when handling ketamine and xylazine.   |