



## **Guidelines on Hazardous Drugs and Chemicals in Animal Use Protocols**

### **I. Purpose & Scope**

This document is meant to provide guidance for determining which hazardous chemicals and drugs must be listed in an Animal Use Protocol (AUP). This document is limited in scope to only those items that are administered to live research animals during the procedures outlined in protocols approved by the Institutional Animal Care and Use Committee (IACUC).

### **II. Hazardous Drugs and Chemicals to Include in AUPs**

If a material will be administered to any live laboratory animal and falls into one of the categories below, then the item must be listed as a hazardous chemical within the AUP.

- Defined as a carcinogen. These may be identified in one of the following ways:
  - Section 2 of the material's Safety Data Sheet. A carcinogen will have the following pictogram and will also be described as Category 1A (known), 1B (presumed), or 2 (suspected).



- Identified by the National Toxicology Program as a "known" or "reasonably anticipated" human carcinogen
  - Identified by the International Agency for Research on Cancer (IARC) as carcinogenic, probably carcinogenic, or possibly carcinogenic to humans.
- Defined as a Germ Cell Mutagen. These may be identified in the following way:
    - Section 2 of the material's Safety Data Sheet. A germ cell mutagen will have the following pictogram and will also be described as Category 1A (known), 1B (presumed), or 2 (suspected).



- Defined as a Reproductive Toxin. These may be identified in the following way:
  - Section 2 of the material's Safety Data Sheet. A reproductive toxin will have the following pictogram and will also be described as Category 1A (known), 1B (presumed), or 2 (suspected).



- Defined as a particularly hazardous substance by the Occupational Safety and Health Administration (OSHA) due to its acute toxicity. These may be identified in the following way:

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- Section 2 of the material's Safety Data Sheet. An acutely toxic substance will have the following pictogram and will also state whether the item is toxic by inhalation, ingestion, or skin exposure. OSHA only considers items to be particularly hazardous if they are described as Category 1 or Category 2 acute toxins.



- Defined as corrosive to eyes and/or skin. These may be identified in the following way:
  - Section 2 of the material's Safety Data Sheet. An item that is corrosive to eyes or skin will have the following pictogram and will also be described as Category 1 for eyes or Category 1A, 1B, or 1C for skin.



- Included in the list of antineoplastic and other hazardous drugs put forth by the National Institute for Occupational Safety and Health (NIOSH).

### III. Exemptions

The following items are exempt from the requirement to list in the AUP as a hazardous chemical:

- Drugs and chemicals for which an existing policy is available via the OACU.
- Items which are used within the animal facility for general disinfection and cleaning.

### IV. References

Institutional Animal Care and Use Committee Guidebook 2nd Ed., Office of Laboratory Animal Welfare, 2002, pp. 138-140.

NIOSH List of Antineoplastic and Other Hazardous Drugs in Healthcare Settings, Center for Disease Control and Prevention, National Institute for Occupational Safety and Health, 2016.

Code of Federal Regulations: 29CFR 1910.1450, Occupational Exposure to Hazardous Chemicals in Laboratories, accessed 2021.

Occupational Health and Safety in the Care and Use of Research Animals, Committee on Occupational Safety and Health in Research Animal Facilities, Institute of Laboratory Animal Resources, National Academy Press, 1997.