

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE
USE OF POTENTIALLY HAZARDOUS CHEMICAL AGENTS IN ANIMALS

RSP 402.1 | rev. 10/6/2020

The purpose of this form is to provide information to the EHRS department for assessment of each chemical delivered to animals and determine appropriate steps required to safeguard those working with animals. EHRS classifies chemicals in levels ranging from Chem 0 to Chem 3 which dictate required personal protective equipment (PPE) and other safety controls (i.e., waste disposal practices, cleaning practices). In the event of limited information, the chemical agent is classified as a Chem 2.

Attach a copy of the SDS (i.e., [CHEMWATCH](#)). If an SDS is not available, provide any known data regarding the agent. If peer-reviewed literature exists describing excretion (shedding) and metabolism of this agent in this species, please include a copy of the journal article(s). Lab Specific Chemical Hygiene Plans are required: <http://www.utoledo.edu/depts/safety/docs/HM-08-026%20Appendix%20A.pdf>

Section A:

Chemical Agent	CAS #
Protocol Number	Principal Investigator
Submitter	Email

Section B:

Carcinogen	Reproductive Toxin
Mutagen	Hazardous Drug Antineoplastic Drug (per NIOSH)
LD50 OR LC50	
Occupational Exposure Limit (i.e. TLV, PEL, REL, etc.)	
How long after administration does animal shed the agent?	

Section C:

1. Species	<input type="checkbox"/> Mouse (25g), <input type="checkbox"/> Rat (350g), <input type="checkbox"/> Rabbit (1.2kg), <input type="checkbox"/> Other
2. How will you be dosing your animal/s	<input type="checkbox"/> SQ Injection, <input type="checkbox"/> IP Injection, <input type="checkbox"/> Oral Gavage, <input type="checkbox"/> Drinking water Other _____
3. Treatment dose of chemical agent: mg/kg of animal Submitter must convert if not reported in mg/kg If 3 is blank, fill in 5	
4. Max number of animals dosed per experimental group	
5. Concentration of chemical agent dosed per animal	
a) Volume/weight of dose per animal per day*	
6. Number of doses per 7-day period per animal	
7. Location of animals being dosed	<input type="checkbox"/> HEB DLAR, <input type="checkbox"/> Wolfe Hall DLAR Vivarium, <input type="checkbox"/> Other _____
Written description of dosing your chemical:	

*For chemicals delivered in animal drinking water, volume of water ingested per day per one animal is estimated as 0.0055L for mice, 0.035L for rats, and 0.350L for rabbits.

REVIEW and DETERMINATION (For EHRS ONLY)

The above agent has been determined to be:

<input type="checkbox"/> CHEM 0	<input type="checkbox"/> CHEM 1	<input type="checkbox"/> CHEM 2	<input type="checkbox"/> CHEM 3
---------------------------------	---------------------------------	---------------------------------	---------------------------------

Special Instructions: _____

Additional Notes for PI and Researchers:

1. All personnel working with the agent must have read the SDS and completed all EHRS and DLAR training requirements. The Principal Investigator is responsible for assuring that all personnel working on the research project have training in laboratory health and safety. Contact Environmental Health and Radiation Safety (EHRS) or DLAR for more information.
2. Spills and personnel exposure must be managed as described in the EHRS procedures.
3. All personnel using respirators must comply with the respiratory protection program, which requires medical clearance and respirator specific fit testing.
4. DLAR management must be notified in writing in advance of the use of this agent.

Helpful tips for filling out the form:

1. The goal here is to find out how much of the given chemical is being used at a given time and for what duration. The determination of CHEM level takes into consideration the amount dosed per animal, animal size, number of animals present, number of doses to each animal during a 7 day period.

Examples:

- a. Dosing through the drinking water for 7 days. How much chemical is used in the bottle of water, how many cages and the number of animals per cage (gives us your group size) are receiving this and how much the animals drink daily. This will give us the estimated amount of chemical exposure for that cage.
 - b. Dosing by SQ injection for 3 days. Outline the concentration and amount of chemical being dosed each time. Your dosing 3 days in a row which means that cage of animals will be receiving 3 x (amount of each dose) = total amount of chemical in each cage.
2. In Section C, box 4: List the max number of animals dosed per experimental group. Do not list the overall number of animals used for the duration of the protocol, but rather how many animals will be dosed in an experimental group.
 3. A written description of dosing your chemical in animals will aid the reviewer when they are classifying the chemical hazard level.