Carleton University | Office of Risk Management
Environmental Health & Safety

ASSESSMENT OF OCCUPATIONAL EXPOSURE TO HAZARDOUS CHEMICALS IN ANIMAL LABORATORY

The use of hazardous chemicals including but not limited to: **antineoplastic drugs, materials that are highly toxic, corrosive, known or suspected carcinogens, reproductive or developmental toxins**, must be assessed before permitted for use in animal protocols. It is the responsibility of the Principal Investigator to identify and help to minimize the risk of exposure to hazardous chemicals to the staff**.**

Please fill out the table below for hazardous chemical substances that you are going to use for you animal protocol and send it to zanetapolis@cunet.carleton.ca for evaluation and approval.

Name:_____ Lab location:_____ PI:_____

AUP number (if already given) _____

1. Substance information

Chemical name:_____ CAS number: _____

Hazard class[1]: Carcinogen ☐ Reproductive toxin ☑ High acute toxicity ☑

Route of administration: _____

Route of excretion*: _____

Washout period*:_____

Concentration of the chemical agent (dose and the duration of treatment) _____

_____

2. Procedure

Briefly describe how the hazardous chemical will be used[2]:

Method of preparation (i.e. solutions, mixtures pure material):

Are animals going to be transported between rooms before the end of wash out period? YES ☑ NO ☑

3. Exposure Controls

What engineering controls are you going to use [3]?
Fume hood ☑ BSC ☑

3.1 Personal Protective Equipment (PPE) (Check all that apply)

☑Safety glasses
☑Gloves (type_____)
☑Lab coat
☑N95 respirator
N95 users must be fit tested within the last 2 years
☑Other _____

4. Decontamination and disposal

Are cage liners needed YES ☑ NO ☑

Neutralizing agent*_____

Is the chemical harmful to aquatic life? YES ☑ NO ☑

* Provide supporting literature

ADDITIONAL INFORMATION

For purposes of this form, a hazardous substance refers to the agent that is known or suspected human carcinogens, reproductive toxins, and substances with acute toxicity. Each research lab must complete this form and have it approved by EHS prior to their initial use.

1. Carcinogen: if on IARC, ACGIH or NTP list

   Reproductive toxin: mutagens, teratogens, embryo- toxins

   High Acute Toxicity: oral LD50 ≤ 50 mg/kg, skin LD50 ≤ 200 mg, air LC50 ≤ 200 ppm or ≤ 2 mg/l.

2. Briefly describe the part of the experimental procedure that involves the substance, with particular attention to how the chemical will be manipulated.

3. A fume hood should be used for chemicals that may produce vapors, mists, or fumes, or if the procedure may cause generation of aerosols