|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Drug / Chemical Hazard Form | | | | | | | | |
| ***Animal Research Ethics Board* – McMaster University** | | | | | | | | |
|  |  |  |  |  | **-** |  | **-** |  |
| *Principal Investigator* |  | *Date* |  | *AUP#* | | | | |

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| ***In order to provide a safe environment for animal facility (AF) staff handling the animals, this form must be submitted to the Manager, Animal Care prior to starting the work for all chemicals/drugs with either:***   * ***GHS score of 1 or 2*** * ***any chemicals/drugs that do not have sufficient information regarding their safety***   ***For further explanation, refer to:*** [***http://www.ccohs.ca/oshanswers/chemicals/whmis\_ghs/sds.html***](http://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html)  ***Attach the following:***   * ***Request for Service (RFS)*** * ***Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS)***   This form and a valid SDS must be posted on the animal room door. Cages will require Chemical/Hazardous Drug labeling to protect the AF staff working with the animals. |

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| --- | --- | --- |
| Chemical/Hazardous Drug Name |  | |
|  | | |
| Hazard Score | GHS Level |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Species* | *Route of Administration* | *Dosage or Concentration* | *Performed By* | *Use of Fumehood Required* | *Use in Aquatic System* |
|  |  |  | AF Staff Lab Staff | Yes  No | Yes No |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1) | Primary hazards (typically found in Sections 3 and 11 of MSDS or Sections 2, 11 and 16 of SDS) / route of excretion | | | | |
|  | **[p** | | | | |
|  |  | | | | |
| 2) | Secondary hazards such as active metabolites that are shed by the animal | | | | |
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|  |  | | | | |
| 3) | Elimination half-life or period of shedding | | | | |
|  |  | | | | |
|  |  | | | | |
| 4) | Likely route(s) of exposure to AF staff handling animals | | | | |
|  | Ingestion  Absorption (skin/eyes/mucus membranes) | | | | Inhalation  Puncture/scratch/bite |
|  |  | | | | |
| 5) | Physical state of the chemical | | | | |
|  | Loose powder/crystals  Solid | | | | Liquid  Gas |
|  |  | | | | |
| **Safety Precautions** | | | | | |
|  |  | | | | |
| 1) | Engineering controls – what mechanical systems do you recommend to AF staff handling animals? | | | | |
|  | Fume hood  Biosafety cabinet  Other | | | | Micro-isolator cages  Individually ventilated cages |
|  |  | | | | |
|  | If “Other” selected provide details: | |  | | |
| 2) | Administrative controls – can you supply procedure SOPs or other references?  Yes  No | | | | |
|  | If no, please explain. | | | | |
|  |  | | | | |
|  |  | | | | |
| 3) | Personal protective equipment – Based on the level of animals, pharmacokinetics and toxicology, indicate required PPE. | | | | |
|  |  | Nitrile Gloves -  Single  Double | | | |
|  |  | N95 mask OR  BSC | | | |
|  |  | Lab coat or gown | | | |
|  |  | Face shield or chemical resistant eyewear | | | |
|  |  | | | | |
|  | Length of time this PPE is required post animal exposure | | |  | |
|  | \*Note: After the timecourse mentioned above, AF staff will still wear nitrile gloves, surgical mask and dispose of bedding as chemical waste. | | | | |

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| **The following are standards for safe handling that must be followed when this chemical hazard is in use:** | |
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| ***Rodents/Small animals*** | |
| 1) | Submit an RFS to the AF Technical Manager 48 hours in advance. |
| 2) | Cages, water bottles and surplus food will be disposed of as chemical waste. |
|  | |
| ***Aquatic animals*** | |
| 1) | Submit an RFS to the AF Technical Manager 48 hours in advance. |
| 2) | The Principal Investigator should discuss the use and disposal of the chemical with the appropriate Safety Office (Faculty of Health Science Safety Office or Environmental and Occupational Health Support Services). |
|  | |
| ***Other*** | |
| Discuss with the Manager of Animal Care. | |

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| As Principal Investigator, it is my responsibility to ensure that all necessary safety information for the safe handling of potential chemical hazards is communicated to AF management via this form. Any controls or notifications required in addition to those listed as the standards above are identified below.  Any potential concerns from AF staff about this information can be discussed with the appropriate Safety Office (Faculty of Health Science Safety Office or Environmental and Occupational Health Support Services). | | |
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|  |  |  |
| *Principal Investigator’s Signature* |  | *Date* |

*Revised April 2023*