

## Use of Ethyl 3-aminobenzoate methanesulfonate (Tricaine or MS-222)

### Purpose:

To provide guidance for the use of MS-222 in the laboratory and animal facility environment. MS-222 is used at UW-Madison in animal research for a variety of research applications. MS-222 is used for anesthesia, sedation, and for euthanasia in aquatic species.

### Precautions:

The following information can be used to complete the Safety section of your animal protocol.

1. Chemical hazard agents – (Identify the category of the chemical): (*Select the following*)
  - Irritant (respiratory/skin/eye)
2. Containment preparation – (Containment equipment required for the preparation of the chemical): (*Select one of the following*)
  - Fume Hood
  - Other: If a fume hood is not available, a respirator may be worn. **NOTE:** Field work does not apply. Mixing MS-222 to solution in the field, fresh open air is adequate.
3. Containment animals – (Containment equipment required for chemical administration and handling animals after exposure to the chemical): (*Select the following*)
  - No special containment needed
4. PPE needed - (for handling live animals, carcasses or animal waste/dirty bedding): (*Select the following*)
  - Exam gloves – nitrile
  - Safety glasses/goggles
  - Lab coat or disposable gown
5. Waste Disposal: (disposal of animal waste/dirty bedding from animals after exposure to the chemical) (*Select the following*)
  - No special precautions needed for waste/dirty bedding
  - NOTE: For field work, DO NOT dispose any leftover solution in the field since it can harm targeted/non-targeted species or the environment.
6. Carcass disposal: (*Select the following*)
  - Pick up by EH&S for incineration.

- NOTE: For field work, select Other and add No special precautions needed.

7. Chemical human risk: *(Add the following)*

MS-222 is an irritant to the eyes, respiratory system, and skin.

**Additional information:**

If a respirator is needed Occupational Health/Occupational Medicine can also be consulted as to the appropriateness of using an N95 when higher respiratory protection is recommended. Note: personnel must receive medical clearance and fit testing for respirator use.

**References:**

“Ethyl 3-aminobenzoate methanesulfonate(Tricaine or MS-222) SDS”

<http://www.sigmaaldrich.com/catalog/product/aldrich/e10521?lang=en&region=US>