

12.0 HAZARDOUS MATERIALS INFORMATION

Complete this form if you will be using hazardous materials and reagents in your AUP.
Contact Environmental Health and Safety (951-786-2648) for assistance in completing sections 2.0 and 12.0.

If this AUP indicates the use of biohazards or wild caught animals, this AUP will be reviewed by the Institutional Biosafety Committee and must be approved by the IBC prior to IACUC approval of this AUP.

If this form indicates the use of radiation or chemical hazards, this form will be reviewed by EH&S for appropriate safety precautions.

PROTOCOL # _____
EXPIRES: _____

____ Reviewed by Biological
Safety Officer

____ Reviewed by Radiation
Safety Officer

____ Reviewed by Environmental
Health & Safety

Identity of Hazard:

Tricaine Methane Sulfonate (TMS) / MS-222

Last Name:

First Name:

Email:

Laboratory Building:

Vivarium:

Department:

Phone:

Fax:

Room(s):

Room(s):

Provide a short description of the reagent(s):

TMS is a muscle relaxant and is used for temporary immobilization of fish, amphibians, and other cold-blooded animals. TMS in powdered form is resuspended in water and typically buffered to prevent low pH levels.

This material/ reagent is hazardous for:

Humans only	
Animals only	
Humans and Animals	X
For which Animal Species?	

The reagent can be spread by:

Blood	
Feces/urine	
Saliva/nasal droplets	
Does not leave animal	
Other:	N/A

Describe any human health risk associated with this agent:

TMS may cause skin irritation and serious eye irritation. Material may be irritating to the mucous membranes and upper respiratory tract.

The precautions checked below apply to this experiment:

The researcher or his/her technicians are responsible for the feeding and care of these animals.	
The following items must be assumed to be contaminated with hazardous material and must be handled only by the researcher or his/her technicians.	

Cage	
Stall	
Water Bottle	
Animal Carcasses	
Bedding	
Other:	
Cages must be autoclaved before cleaning.	
Label cages and remove label after decontamination.	
Animal carcasses must be labeled and disposed of as follows:	
Incineration	
Bag and Autoclave	
Biohazardous Waste Container	
EH&S will pick-up (x5528)	
All contaminated waste (soiled bedding or other animal waste) must be properly labeled and disposed of as follows	
Incineration	
Bag and Autoclave	
Biohazardous Waste Container	
EH&S will pick-up (x5528)	

Personal Protective Equipment Required:

The following personal protective equipment must be worn/used in the room or when handling animals:	
Lab Coat/Coveralls	X
Shoe Covers/Booties	
Disposable or Utility Gloves	X
Head Cover	
NIOSH Certified Dust Mask	
Disinfectant footbath	
Eye/Face Protection	X
NIOSH Certified Fitted Respirator	Type:
Other:	Describe:
Personal protective equipment must be removed before leaving the room.	
Personal protective equipment must be discarded or decontaminated at the end of the project	
Hands, arms, and face must be thoroughly washed upon leaving the room	
Full shower, including washing of hair, must be taken upon leaving the room.	
Decontaminate Room (Inform ARS area supervisor when cage and/or room can be returned to general use).	

Provide any other information needed to safely work in this designated areas of research.

Powdered TMS should be handled in a fume hood. Eye protection should be used when handling solution. Disposable latex or nitrile gloves should be used when handling solution.
TMS waste should be disposed of as hazardous chemical wastes through EH&S. Care should be taken to avoid release into the environment, such as through sink drains, as TMS is harmful to aquatic life with long lasting effects.