

I. Laboratory Information:

Laboratory Supervisor: Department:

Building: Room(s):

Laboratory Safety Officer (LSO), if any:

II. Hazard Identification:

a) Identify the Hazardous Chemical or Hazard Group:

1. List chemical name and CAS number if a single chemical is covered by this form:

Chemical name: CAS number:

2. Or, identify the **hazard group** by using SciShield ChemTracker, click advanced filter, and sort by Storage Group, list the chemicals specific to this group.

b) Maximum quantity to be used or stored in the next year:

☐ <1 L or 100 gm ☐ 1 L/100 gm to 5 L/1 kg ☐ 5 L/1 kg to 20 L/5 kg ☐ > 20 L/5 kg

c) Identify the state and concentration that will be used:

☐ Solid ☐ Gas ☐ Liquid
☐ Dilute (<5%) ☐ Intermediate (5-25%) ☐ Concentrated (>25%)

d) What hazards do these material(s) present?

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Flammable (flashpoint <100 F) | <input type="checkbox"/> Combustible (100 F < flashpoint <200 F) | <input type="checkbox"/> Water Reactive <input type="checkbox"/> Corrosive (pH>10 or pH <4) | <input type="checkbox"/> Pyrophoric <input type="checkbox"/> Oxidizer <input type="checkbox"/> Cyanide |
| <input type="checkbox"/> Shock sensitive | <input type="checkbox"/> Time sensitive | <input type="checkbox"/> Stench material | <input type="checkbox"/> Other |
| <input type="checkbox"/> Acute Toxicity or Sensitizer | <input type="checkbox"/> Chronic Toxicity | <input type="checkbox"/> Carcinogen, Teratogen, Mutagen | <input type="text"/> |

III. Chemical Safety Information and Training:

a) What Chemical Safety information is available for these chemicals (check all that apply)?

- ☐ SDS Location:
- ☐ Technical literature/ Location:
- ☐ Chemical labels with hazard warnings

REMINDER: All lab personnel must be made aware of where this safety information can be found.
This type of training should be documented.

b) Chemical Safety: First Aid/Emergency Response Considerations:

Are there first aid or emergency response procedures necessary for these chemicals beyond rinsing with water? ☐ Yes ☐ No

If Yes, specify:

REMINDER: All lab personnel must be made aware of emergency response procedures for hazardous materials. This training should be documented.

IV. Safety Controls and Equipment:

a) Administrative Controls:

Does this/Do these chemicals require use of a designated area? ☐ Yes ☐ No

Does the area of use need to be decontaminated after use? ☐ Yes ☐ No

If so, what disinfectant is to be used?:

Are here written SOP's for the safe use of this (these) materials? ☐ Yes ☐ No

If yes, is SOP training being provided and documented? ☐ Yes ☐ No

b) Which Engineering Control(s) Are Required to Use This/These Chemical(s) Safely?:

☐ Fume hood ☐ Glove Box ☐ Biosafety cabinet ☐ Snorkel or other local exhaust

☐ Safety shields ☐ Other:

c) Which Personal Protective Equipment (PPE) Is Required for Safe Use?(check all that apply):

Eye protection: ☐ goggles ☐ Safety glasses ☐ Face shield

Body protection: ☐ Labcoat ☐ Apron ☐ Long pants ☐ Closed toed, solid shoes

Hand protection: ☐ Disposable gloves (<6ml) nitrile

☐ Protective gloves: Material: Thickness: mill

☐ Cut resistant ☐ Thermal protective ☐ Other

Respiratory Protection: ☐ Disposable particulate ☐ Cartridge ☐ PAPR

☐ Other:

d) Emergency Response Equipment:

Is the following available and properly flushed/maintained in the lab?

☐ emergency shower ☐ eyewash ☐ spill control equipment ☐ emergency exits

☐ emergency contact information

V. Medical Monitoring and Exposure Assessment:

a) Is medical monitoring required for users of these materials? ☐ Yes ☐ No

OSHA requires medical monitoring for workers who use respirators and for certain chemicals.

If yes or unsure, please contact safety@uvm.edu for more information.

b) How will potential exposure to these chemicals be assessed?

The OSHA Laboratory Standard requires that worker exposure to hazardous chemicals be assessed before work begins and during laboratory operations if necessary. Indicate how worker exposure will be assessed. Describe "Other" if appropriate. See Job Hazard Analysis (JHA) section on the EH&S website for more information.

☐ Professional Judgment of Lab Supervisor\ Consulted with EH&S ☐ Yes ☐ No

☐ Area Monitoring ☐ Personal Monitoring

VI. Storage Considerations:

a) Where will these materials be stored? ☐ Flammables cabinet ☐ Corrosives cabinet

☐ Household refrigerator ☐ Flammable rated refrigerator/freezer

☐ General storage (standard cabinets and shelves)

b) Do these materials require secondary containment? ☐ Yes ☐ No

c) Are storage areas clearly marked with hazard signs? ☐ Yes ☐ No

VII. Method of Disposal & Pollution Prevention:

a) Disposal: ☐ Hazardous waste disposal via EHS\ ☐ Neutralized/Consumed during process

☐ Sink disposal (non)hazardous liquids only, with EHS approval)

b) Pollution prevention: (check all that of these methods that were applied):

☐ Substitution of less hazardous chemicals ☐ Reduction in the amount of chemical used

☐ Change in procedure

In accordance with UVM's Policy on Laboratory Health & Safety, I accept responsibility for the proper Use and disposal of these materials in the laboratory work described above and have assigned Chemical safety responsibilities within the laboratory to people with appropriate training and/or experience.

Laboratory Supervisor Signature: **Date:**

Contact safety@uvm.edu for assistance. Retain this form for review by laboratory staff and EH&S personnel.