

Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Jalaj Mehta and Lauren Stiefel

Title of Project Enhancing the Flame Retardancy of Biodegradable Poly(vinyl alcohol) Hydrogels with Resorcinol Bis(diphenyl phosphate) Coated Starch

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist:
(All questions must be answered; additional page(s) may be attached.)

- List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
 - Fourier Transform Infrared Spectroscopy
 - Thermal Gravimetric Analysis
 - High-Speed Centrifuge
 - Bernzomatic Blowtorch
 - Resorcinol bis(diphenyl phosphate)
 - Poly(vinyl alcohol)
- Identify and assess the risks involved in this project.
 - Contact burns are likely and may range from trivial to severe but most likely will affect only the user.
 - Ignition is much less likely but may result in widespread injury to others.
 - Possible injury to digits if machine is used improperly (centrifuge and TGA)
 - Direct skin exposure to chemicals (PVA and RDP) may be detrimental to health
- Describe the safety precautions and procedures that will be used to reduce the risks.
 - Appropriate gloves, safety glasses and lab coat must be worn when handling heating equipment.
 - all users will be trained on machine before handling
 - Appropriate PPE will always be worn while working with chemicals to ensure safety
 - Machines will be handled with care and caution
- Describe the disposal procedures that will be used (when applicable).

chemicals will be disposed of in labeled vented containers and removed by EH&S
- List the source(s) of safety information.

Ashville Lubricants, XG Sciences, Stony Brook University

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):

I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and will provide direct supervision.

miriam rafailovich
Designated Supervisor's Printed Name


Signature

6/30/2019
Date of Review (mm/dd/yy)

Professor Stony Brook University
Position & Institution

516 458 9011
Phone or email contact information

PhD Nuclear Physics, director of laboratory
Experience/Training as relates to the student's area of research