

## Risk Assessment Form (3)

Must be completed before experimentation; recommended for all projects. May be required for projects involving Human Participants, Hazardous Chemicals, Materials or Devices or Potentially Hazardous Biological Agents.

Student's Name(s) \_\_\_\_\_

Title of Project Which form of biodegradable hydrogels will help conserve irrigation water in the farming industry?

**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.)

1. Identify and assess the risks and hazards involved in this project.

*Citric Acid is considered an eye irritant if chemical gets into or near eyes. HEC Powder can cause nausea, vomiting, or diarrhea if large amounts are consumed by an individual. (Small amounts will be used for experimentation).*

2. a) List all hazardous chemicals, activities or devices to be used; b) identify and list all microorganisms to be used that are exempt from pre-approval (see Potentially Hazardous Biological Agent rules).

*• Citric Acid*

*• Hydroxyethyl cellulose Powder - (Small amounts will be used so these hazards should not be an issue). NO risks & hazards for small amounts (food product)*

3. Describe the safety precautions and procedures that will be used to reduce the risks.

*• Safety Goggles - Eye protection.*

*• Gloves - Hand protection*

*• Apron - Spill protection for body.*

*• Heat-protective gloves - Protecting hands from heat of the hot plate*

4. Describe the disposal procedures that will be used (when applicable).

*#26a - Solid Waste Disposal in Landfill*

i. List the source(s) of safety information.

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**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 the International Rules, including the science fair ethics statement and will provide direct supervision.

Joyce Stark  
Designated Supervisor's Printed Name

Joyce Stark  
Signature

02/07/24  
Date of Review (mm/dd/yy)

M.S. Biology  
Experience/Training as relates to the student's area of research

Sunrise HS Science Teacher  
Position/Institution

Joyce Stark @ Sunrise  
School/Institution