

# MatSE HAZARD ANALYSIS TOOL (HAT)

## Experiment Information

NAME:

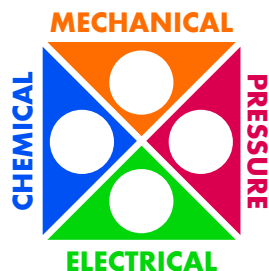
CELL PHONE:

DATE:

ADVISOR:

EXPERIMENT OVERVIEW:

## Hazard Indicator



- 0 - NO HAZARD
- 1 - HAZARDOUS
- 2 - MODERATELY HAZARDOUS
- 3 - EXTREMELY HAZARDOUS

INDICATE MAJOR HAZARD:

### 1.

Are you familiar with the safe operating procedure for your experiment?

YES  NO  N/A

Have you discussed the procedure with a colleague or supervisor?

YES  NO  N/A

What potential hazards have you found and discussed?

### 2.

What Personal Protective Equipment (PPE) is required?

Are you wearing the correct PPE for the equipment used?

YES  NO  N/A

Are you wearing the correct PPE for the chemicals, radioactive, and/or biohazardous materials used?

YES  NO  N/A

### 3.

What equipment is required?

What are the possible hazards associated with this equipment?

Is the electrical equipment grounded, are the cord and power strips in good shape?

YES  NO  N/A

Do you have procedures in place for equipment malfunctions?

YES  NO  N/A

Who do you notify if the equipment is in disrepair or breaks during your experiment?

4.

What chemicals, radioactive, and/or biohazardous materials are required?

According to the MSDS, what are the possible hazards associated with the materials being used?

Do you know the proper disposal procedures for your waste following PSU EHS procedures?

YES  NO  N/A

5.

If this reaction is a scaled-up version of a previously tested reaction, what new hazards are involved?

6.

Are gas cylinders properly secured?

YES  NO  N/A

Are the regulators and tubing in good condition?

YES  NO  N/A

Are toxic gas cylinders well-labeled and are sensors/alarms in place?

YES  NO  N/A

Is flammable gas well-labeled and kept at least 20 feet from oxygen cylinders?

YES  NO  N/A

7.

Can you locate and get to the nearest **Fire Extinguisher**?

YES  NO  N/A

Can you locate and get to the nearest **Eye Wash Station**?

YES  NO  N/A

Can you locate and get to the nearest **Safety Shower**?

YES  NO  N/A

8.

What other potential hazards exist that are not covered above?

### Emergency Contact Numbers

Environmental Health & Safety	5-6391	Office of the Physical Plant	5-4731
Campus Police	3-1111	State College Police	911