

Job Hazard Analysis

Task/Equipment:	Bunsen Burner
Department:	Biology
Analyzed By:	Justine Becker
Date:	10/1/2020

Personal Protective Equipment Required:



Safety
Goggles



Lab Coat



Chemical
Resistant Gloves

Trainings Required*/Recommended:

General Lab Safety Training

Equipment/Tools/Chemicals Required for the Job:

Necessary: Bunsen Burner, fuel hose, striker, tongs, fuel (gas)
Optional: stand with wire screen and clamp, test tube clamps, glass beakers, test tubes, or microscope slides, various laboratory chemicals (see SDS for specific information)

Tasks/Steps	Hazards Present	Safety Measures and Controls
Place the Bunsen burner on a table away from any debris. Use only where there is plenty of overhead space.	A. Ignition with nearby flammables	A. Wear safety goggles B. Remove any combustible materials
Connect the Bunsen burner to the fuel source (gas) using the fuel tubing	A. Uncontrolled or excessive ambient gas flow.	A. Use fuel tubing that has been checked over and is in good condition to control gas flow and avoid uncontrolled gas releases, which may ignite when Bunsen burner is lit or in operation.
Turn the knob slowly to start the gas flow. Light the Bunsen burner using a starter.	A. Large or uncontrolled flame caused by a rapid gas flow.	A. Turn knob on gas valve slowly. Stop when you hear the flow begin. B. Do not leave Bunsen burner unattended.
Adjust the flame size.	A. Large or uncontrolled flame caused by a rapid gas flow	A. Keep the flame as small as possible for the task (typically a medium blue flame).
Complete the procedure you are doing using the Bunsen burner.	A. Igniting combustible or flammable materials and fumes.	A. Keep the flame as small as possible for the task (typically a medium blue flame).
Turn knob to turn off gas to Bunsen burner Allow Bunsen burner cool before handling.	A. Igniting flammables B. Skin burns.	A. Shut off gas when finished. B. Cooling down period will prevent burns. C. Ensure main gas valve is off before leaving laboratory

Reviewed By	Date
Bryana Borders	4/14/22