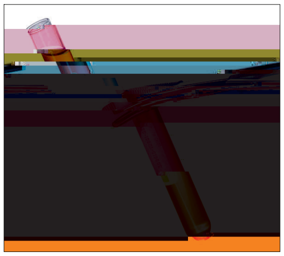
“Safety Comes First ”

Case Western Reserve Department of Environmental Health and Safety

Acetylene Regulator and Cylinder Safety

Acetylene is the fuel of choice for repair work and general cutting and welding. However, it is also highly flammable and forms explosive mixtures with air in concentrations ranging from 2-80%. Acetylene gas is also thermodynamically unstable and sensitive to shock and

> *“As with any other flammable gas, acetylene should be stored and used in a well-ventilated area away from sources of ignition.”*



(*continued from previous page*) If you have specific questions regarding the safe use of acetylene, contact your compressed gas supplier and ask to speak with someone in technical support. They are familiar with the problems that can arise and are a valuable source of information. Remember to include a standard operating procedure (SOP) to ensure that everyone will know how to safely use acetylene in your lab. For assistance in preparing a SOP refer to the Important Safety and Operation Instructions For Regulators & Cylinders(https://www.case.edu/ehs/LabSafety/cylinder_care.pdf) located in our EHS website under Chemical Safety or contact your Environmental Health and Safety (EHS) representative at ext. 2907.

Sources: Case Environmental Health and Safety and University of Michigan Occupational Safety & Environmental Health