

## Instructional Lab Operations at Montgomery College

### The College Provides Basic Instructional Undergraduate Labs

The laboratories on campus are basic instructional labs similar to MCPS labs—no investigative research or commercial activities

### The College Uses Standard Instructional Lab Materials

Many are common household materials, including:

- Alcohols  
*Primarily Isopropanol, or rubbing alcohol; Ethanol; Methanol*
- Caffeine  
*Found in coffee, chocolate, and many sodas*
- Aspirin  
*Acetylsalicylic acid*
- Tylenol  
*Acetaminophen*
- Ibuprofen  
*2-(4-Isobutylphenyl) propanoic acid*
- Hexane  
*Solvent used in glues and to extract cooking oils, e.g., soybean and canola*
- Helium gas  
*Often used to inflate balloons at birthday parties*
- Vinegar  
*Acetic acid*
- Starch
- Sugars  
*Sucrose, Glucose*
- Ajax laundry detergent
- Phosphoric Acid  
*Found in sodas*
- Salts  
*A variety of cationic and anionic compounds*
- Weak to strong acids  
*HCL, found in your stomach*
- Acetone  
*Nail polish remover*

### The College Places a Priority on Safety and Utilizes Appropriate Protocols

#### Established Safety Programs Include:

- Classroom and office protocols in place
- Consistent materials hygiene and hazard communication
- Safety for facilities operations and maintenance activities

### The College Employs Staff Dedicated to Safety

Montgomery College's Environmental Safety Office works to promote a healthy and safe work environment for all members of the College community and, as result, the communities in which the College operates.

The Environmental Safety Office requires safety training for faculty, staff, and students; provides laboratory access to Safety Data Sheets for chemical materials; oversees proper disposal of chemical waste; investigates safety complaints; and responds to environmental emergencies that may impact our campuses or our students.

### The College Has a Strong Demonstrated Record of Safety

Labs have been present and safely operated on the Takoma Park/Silver Spring Campus for more than 50 years.

### College Materials Are Strictly Regulated at All Levels of Government

The Environmental Safety Office administers and oversees compliance with federal and state environmental and occupational regulations

#### Key Regulatory Bodies:

- OSHA  
*Occupational Safety and Safety Administration*
- MOSH  
*Maryland Occupational Safety and Health*
- EPA  
*Environmental Protection Agency*
- MDE  
*Maryland Department of the Environment*
- WSSC  
*Washington Suburban Sanitary Commission*

### The College Contracts with ECOFLO, Inc. for Pick up of All Chemical Waste

ECOFLO is waste management company that conforms to EPA, DOT, and state regulations.