Flammable Storage Cabinets

The following guide outlines use of a flammable storage cabinet (FSC). The use and ventilation of cabinets used for combustible and flammable liquids, including cabinets under fume hoods and in rooms where greater than 10 gallons are stored.

**SAFETY TIP:** Any quantity of flammable liquids should be stored in a flammable storage cabinet when not in use.

Any use and design of FSCs must comply with National Fire Protection Association Code 30 and OSHA 29CFR1926.152, 1910.106. For further compliance information contact Fire Safety at 2-3604.

### Reasons for Storage of Flammables in FSC
- Protect contents against flash fire
- Contain spilled flammable liquids
- Prevent excessive internal pressure

### Approval and Precautions
- Approval: Underwriter Laboratories (U.L.) listed + Factory Manual (F.M.)
- Cabinet grounding is NOT required for storage only.
- When dispensing from a container in the cabinet it must be grounded.
- Additional precautions required when stored liquids pose multiple hazards (ex: Acetic acid = flammable and corrosive)

### Ventilation
- Venting is required during dispensing operations from within the cabinet.
- Venting is NOT required for storage of closed containers
- Odor is NOT a reason for venting a FSC
- Vent openings must be sealed with bungs

### Difference between Flammable and Combustible Liquids
- **Flammable liquid:** flash point < 100°F and vapor pressure ≤ 40psi at 100°F
- **Combustible liquid:** flash point ≥ 100°F
- Consult the chemical MSDS for flash point and vapor pressure.

### Required Labeling

**FLAMMABLE STORAGE CABINET SELECTION**

FSCs can be purchased from a number of safety and laboratory equipment companies. Selection of a FSC will be based on the volume and type of flammable liquids stored in the area.

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This guide is not all inclusive of FSC policy and regulations, but provides main points for safe use of FSCs. Further questions contact OSHP at 843-792-3604.