

# **FLAMMABLE AND HAZARDOUS MATERIAL STORAGE**

## **Flammable and Hazardous Materials Storage**

- One of the most common problems encountered in facility is improper storage.
- Provide information regarding basic requirements and most common errors.

## **General Management Practices for Hazardous Material Storage**

- MSDSs must be maintained and readily available for all chemicals stored and used on site.
- All containers must be properly labeled regarding contents and associated hazards, except small quantities during use.
- Exits and common traffic routes may not be blocked.
- Avoid storage of materials near heat or ignition sources.

## **General Management Practices for Hazardous Material Storage**

- Avoid storing incompatible materials together
- Store aerosol containers in well ventilated areas
- Portable tanks should be equipped with venting capacity.

## Flammable Storage Cabinets

- Cabinets must be conspicuously labeled “FLAMMABLE – Keep Fire Away”.
- No more than 60 gallons of flammable or highly flammable liquids should be stored in a single cabinet.
- No more than 120 gallons of mildly flammable or combustible liquids should be stored in a single cabinet.
- Materials in cabinets should be orderly.

## Flammable Storage Cabinets

- Cabinet must be fire resistant
- No open containers within cabinet.
- Door sill should be raised at least 2 inches above bottom of cabinet.



## Flammable Storage Rooms Inside Buildings

- Self-closing fire doors.
- Wood shelving must be at least one inch thick.
- Fire resistant walls.
- Amount of material is limited if wall fire resistance rating is less than 2 hours.
- Must have 4” raised sill/ramp provided between adjacent rooms, or open grated trench draining to safe area.

## Flammable Storage in Warehouses or Storage Buildings

- Aisles must be at least 3 feet wide.
- If located within 50 feet of adjacent building or property line, the exposing wall must be blank (no windows/doors) and must have fire-resistance rating of 2 hours min.
- Amount of flammables in a single building is limited by Flammable Class.



## All Flammable Storage Locations

- Suitable fire control device must be available
- At least one 12-B rated portable fire extinguisher is located outside and within 10-ft of door to flammable storage room.
- NO SMOKING WITHIN 50 FEET signs are posted.
- Incompatible materials are not stored together.



## Compressed Gas Storage

- NO SMOKING signs must be posted.
- Cylinders grouped by hazard class, and adequately separated (i.e., 20 ft. between oxygen and flammable gases).
- Area must be well ventilated and not exceed 125°F.
- CO<sub>2</sub> or dry chemical fire extinguishers must be available.
- Cylinders secured to prevent falling.
- Acetylene cylinders stored with valve end up.