

# Flammable Liquids and Gases



## Storage

- Compressed gases and petroleum products shall not be stored in the same area.
- All areas that are to be used for storage of flammable liquids or gasses shall be conspicuously designated as such, and “No Smoking” signs shall be posted.
- Areas used for storage of flammable liquids and gases shall be located away from any spark producing equipment or machinery.
- Storage structures shall be constructed of fire-resistive materials and located away from spark or welding and other operations involving flames or generation of heat.
- Areas or structures used for storage of flammable liquids or gases shall be well ventilated.
  - Ventilation shall be of either power ventilation (which will be large enough to control odors for size of area) or gravity flow ventilation.
- All motors or switches, light bulbs, and electrical panels shall be constructed of non-spark producing equipment in storage structures shall be rated for the classification of the storage structure.
- A suitable fire extinguisher shall be located within the area for easy accessibility in case of fire.
- All containers from which flammable liquids are dispensed shall be grounded to an outside ground or other means of grounding containers.
- When transferring flammable liquids from one container to another the transfer container and receiving container shall be bonded, using either cable with attached alligator clips for the bonding process.
- Containers containing flammable liquids or gases shall be provided with identification of contents.
- Containers used for one substance shall not be used for any other substance other than what it was intended for.
- Only approved containers shall be used for flammable liquid storage.
  - Containers shall be equipped with a spark arrestor and a self-closing lid.

## Handling

- Only personnel trained in the hazards shall be permitted to enter or dispense flammable liquids or gases.
- Care shall be taken when handling drums or containers so that containers are not punctured or damaged and that all identifications are in place.
- All pumps, containers, and other dispensing equipment shall be kept clean and in working order.
- All tools used in storage areas shall be of non-sparking materials.
- Mixing or transferring liquid materials shall be done in a well-ventilated area.
- When transferring flammable liquids from large container to smaller containers the two shall be bonded, using cable with alligator clips to complete the bonding process to prevent static sparks before the transfer is begun.
- Never use the contents of containers without proper identification of contents.
- Compressed air shall not be used to transfer flammable liquids