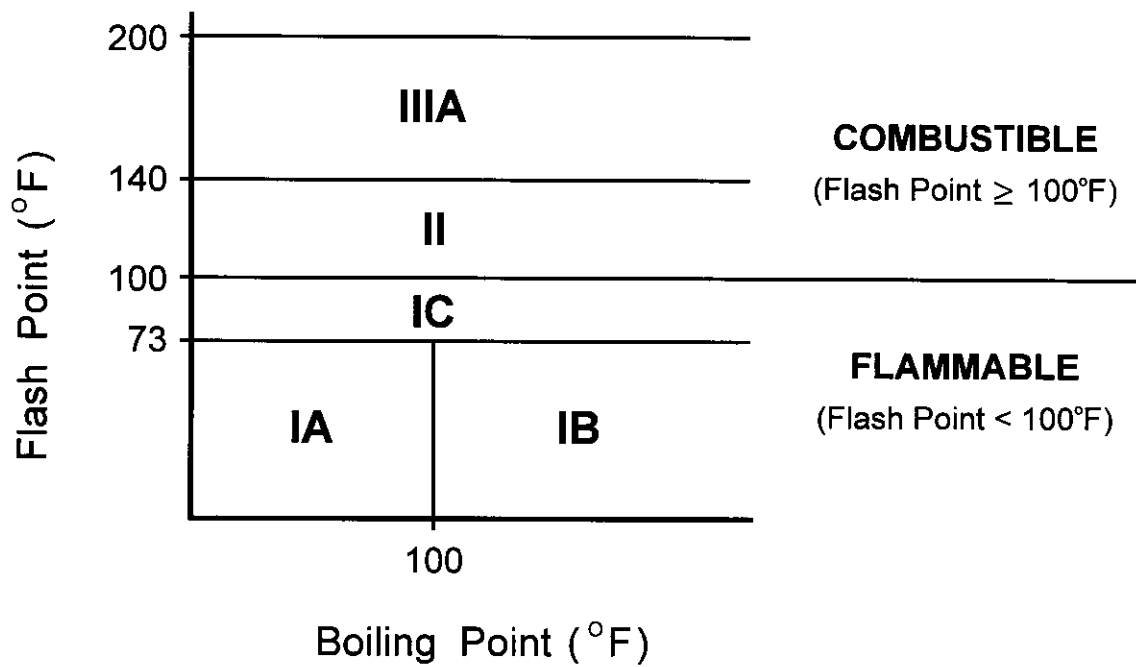


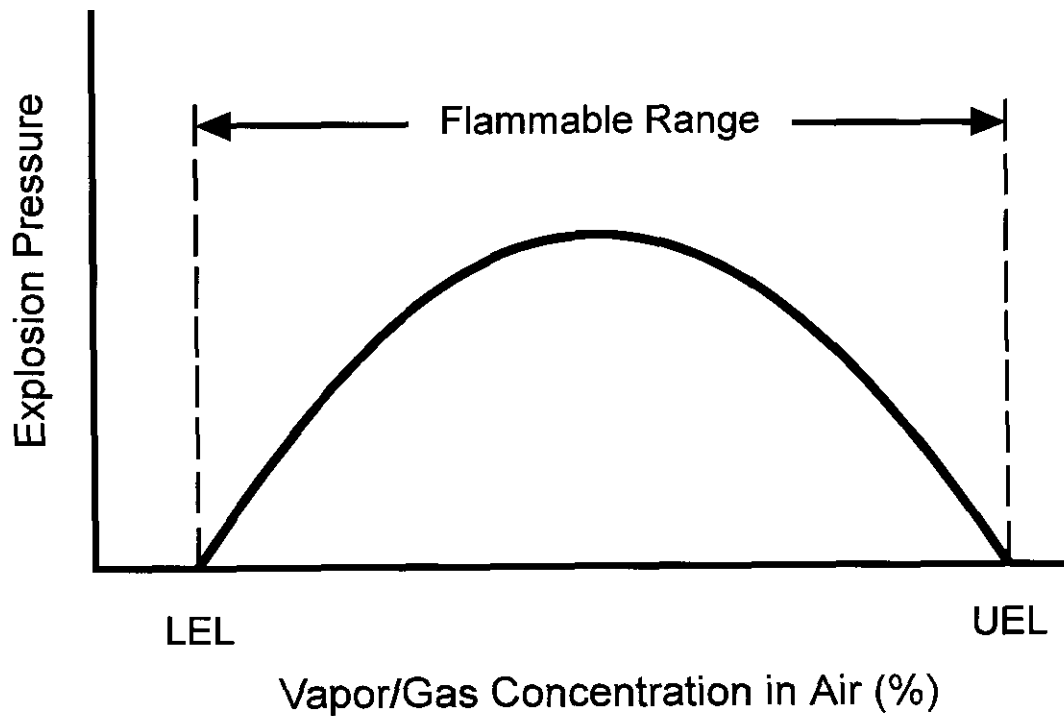




# Classes of Flammable and Combustible Liquids as Defined in 29 CFR 1910.106







In popular jargon, a vapor/air mixture below the flammable limit is too "lean" to burn or explode, and a mixture above the upper flammable limit is too "rich" to burn or explode. No attempt is made to differentiate between the terms *flammable* and *explosive* as applied to the lower and upper limits of flammability.

**Containers and Portable Tanks**

- Applies only to storage of flammable or combustible liquids in drums or other containers (including flammable aerosols) not exceeding 60 gal. capacity and portable tanks less than 660 gal. capacity
- Only DOT approved containers and portable tanks may be used to store flammable and combustible liquids
- Portable tanks must have provision for emergency venting
- Maximum allowable sizes of various types of containers and portable tanks are specified

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**Storage Cabinets**

- Not more than 60 gallons of Class I and/or Class II liquids, or not more than 120 gallons of Class III liquids may be stored in an individual cabinet.
- Both metal and wooden storage cabinets shall be designed and constructed to limit the internal temperature to not more than 325F when subjected to a standardized 10-minute fire test.
- Storage cabinets shall be conspicuously labeled, "Flammable - Keep Fire Away."
- The bottom, top, door, and sides of metal cabinets shall be at least No. 18 gage sheet metal and double walled with 1½-inch air space.
- The door shall be provided with a three-point lock, and the door sill shall be raised at least 2 inches above the bottom of the cabinet.

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## Rating and Capacity

Storage in inside storage rooms shall comply with the following:

STORAGE IN INSIDE ROOMS			
Fire Protection Provided <sup>2</sup>	Fire Resistance	Maximum Floor Area (ft <sup>2</sup> )	Total Allowable Quantities (gal/ft <sup>2</sup> floor area)
Yes	2 hr.	500	10
No	2 hr.	500	4*
Yes	1 hr.	150	5*
No	1 hr.	150	2

\* NOTE: These numbers are incorrectly shown in 29 CFR 1910.106.

- Requirements for electrical wiring and equipment, ventilation, and maintenance of aisles at least 3 feet wide are also included
- Dispensing shall be only by approved pump or self-closing faucet

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<sup>2</sup> Fire protection system shall be sprinkler, water spray, carbon dioxide, or other system.





