

# Environmental Health and Safety

## Maximum Allowable Quantity of Flammables

### Purpose

This guidance establishes maximum allowable quantities on the University campus of flammable gases and liquids under specific safety conditions.

### Maximum Allowable Quantity of Flammables Per Control Area (Based on IFC Table 2703.1.1(1))

Material	Class	Maximum Liquid (gal)	Maximum Gas (cf)
Flammable Gas	Gaseous	—	1,000 <sup>1 2</sup>
Flammable Liquids	Class 1A	30 <sup>1 2</sup>	—
Flammable Liquids	Class 1B and 1C	120 <sup>1 2 3</sup>	—
Flammable Liquids (Combination)	Classes 1A, 1B, 1C	120 <sup>3</sup>	—

### Notes

- Maximum allowable quantities may be increased by 100% in buildings equipped throughout with an approved automatic fire sprinkler system.
  - Where both Note 1 and Note 2 apply, the increases are cumulative.
- Maximum allowable quantities may be increased by 100% when materials are stored in approved storage cabinets, gas cabinets, exhausted enclosures, or safety cans.
  - Where both Note 1 and Note 2 apply, the increases are cumulative.
- The maximum for combinations includes the total of all applicable classes combined (e.g., Class 1A + 1B + 1C).

### Flammable Liquids Classifications

Flammable liquids are those that have a closed cup flash point below 100F (38C). Flammable liquids are further categorized into a group known as Class 1 liquids. The class 1 category is subdivided as follows:

**Class 1A:** Liquids having a flash point below 73F (23C) and having a boiling point below 100F (38C)

**Class 1B:** Liquids having a flash point below 73F (23C) and having a boiling point at or above 100F (38C)

**Class 1C:** Liquids having a flash point at or above 73F (23C) and below 100F (38C)

Flammable liquid categories do not include compressed gases or cryogenic fluids.

