

Safe Handling of Flammable Liquids Infographic



CGA
Compressed Gas Association
The Standard For Safety Since 1913

UNDERSTANDING FLAMMABLE GAS HAZARDS IN CANNABIS GROW & PROCESSING FACILITIES

THE MAJOR HAZARDS OF FLAMMABLE GASES SUCH AS PROPANE AND BUTANE ARE:

- ⚠️ FIRES;
- ⚠️ COMBUSTION BY-PRODUCTS SUCH AS CARBON MONOXIDE AND CARBON DIOXIDE;
- ⚠️ DISPLACEMENT OF OXYGEN, CREATING A RISK OF ASPHYXIATION.

⚠️ THESE GASES CAN BE ODORLESS, MAKING THEM UNDETECTABLE TO PERSONS IN THE AREA. THE VAPORS ARE HEAVIER THAN AIR, CAUSING THEM TO COLLECT IN LOW-LYING AREAS.

FOLLOW SAFE PRACTICES FOR THE STORAGE AND USE OF FLAMMABLE GASES

- 🗑️ STORE AND USE IN WELL-VENTILATED AREAS THAT ARE FREE OF COMBUSTIBLE MATERIALS.
- 🚫 STORE AND USE AWAY FROM OXIDIZERS, OPEN FLAMES, SPARKS, AND OTHER SOURCES OF HEAT OR IGNITION AS VAPORS CAN SPREAD.
- 🚭 POST NO SMOKING SIGNS IN AREAS WHERE FLAMMABLE GASES ARE STORED OR USED.
- 📄 FOLLOW YOUR STATE AND LOCAL BUILDING AND FIRE CODES FOR STORAGE LOCATION, SEPARATION, STORAGE CAPACITY, AND ATMOSPHERIC MONITORING REQUIREMENTS.

LEAK TEST CYLINDERS, CONTAINERS AND SYSTEMS WHEN MAKING CONNECTIONS OR IF A LEAK IS SUSPECTED

- ⚠️ NEVER USE A FLAME TO TEST FOR A GAS LEAK.
- ✅ USE A COMPATIBLE LEAK DETECTION FLUID OR LEAK DETECTORS SUITABLE FOR FLAMMABLE GASES TO CONFIRM GAS-TIGHT CONNECTIONS OR INVESTIGATE SOURCE OF LEAK.

MITIGATE PERSONNEL HAZARDS

- 👁️ ENSURE PERSONNEL EXPOSURE TO HAZARDOUS GASES ARE BELOW ALLOWABLE LIMITS.
- 📊 MONITOR FOR FLAMMABLE GAS, CARBON MONOXIDE, CARBON DIOXIDE, AND OXYGEN LEVELS.
- 🌬️ ENSURE ADEQUATE VENTILATION AND MAINTAIN OXYGEN LEVELS BETWEEN 19.5% AND 23.5%.
- 🧑‍🚒 USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE):
 - ✅ WEAR FLAME-RESISTANT CLOTHING (FRC) WHEN HANDLING FLAMMABLE GASES
 - ✅ WEAR WORK GLOVES AND EYE PROTECTION WHEN HANDLING FLAMMABLE GASES

Source: <https://www.cganet.com>