

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>