

# 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



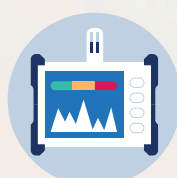
- ⚠ NEVER USE A FLAME TO TEST FOR A GAS LEAK.
- ✓ USE A COMPATIBLE LEAK DETECTION FLUID OR LEAK DETECTORS SUITABLE FOR FLAMMABLE GASES TO CONFIRM GAS-TIGHT CONNECTIONS OR INVESTIGATE SOURCE OF LEAK.



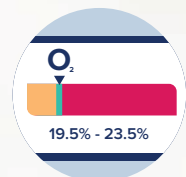
## MITIGATE PERSONNEL HAZARDS



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



**CONTACT YOUR GAS SUPPLIER FOR ADDITIONAL INFORMATION.**

**GAS  
SUPPLIER**



## IN CASE OF AN EMERGENCY, EVACUATE THE AREA IMMEDIATELY.

ONLY TRAINED AND QUALIFIED PERSONNEL SHOULD ATTEMPT EMERGENCY RESPONSE OR RESCUE ACTIVITIES. KNOW AND FOLLOW YOUR COMPANY'S EMERGENCY RESPONSE PROCEDURES.

## THE FOLLOWING STEPS CAN BE TAKEN IF THEY CAN BE DONE WITHOUT RISK TO PERSONNEL:

**IF FLAMMABLE GAS IS ESCAPING AND ON FIRE:**

- ✓ DO NOT EXTINGUISH THE FIRE UNLESS THE LEAKAGE CAN BE STOPPED IMMEDIATELY
- ✓ USE A DRY CHEMICAL OR CARBON DIOXIDE FIRE EXTINGUISHER TO PUT OUT SMALL FIRES

**IF FLAMMABLE GAS IS ESCAPING AND NOT ON FIRE:**

- ✓ ATTEMPT TO CLOSE VALVE(S) THAT WILL STOP THE FLOW OF GAS.

