

# CO2 Safety In Restaurants, Bars And Private Events Infographic



**CGA**  
Compressed Gas Association  
The Standard For Safety Since 1913

## UNDERSTANDING CARBON DIOXIDE HAZARDS IN FOOD AND BEVERAGE INDUSTRY

**CARBON DIOXIDE CAN CREATE A HAZARDOUS ATMOSPHERE.**

CARBON DIOXIDE (CO<sub>2</sub>) CAN BE USED AS A GAS, LIQUID, OR SOLID DRY ICE IN THE GASEOUS STATE IT IS COLORLESS, COLORLESS, AND TASTELESS MAKING IT UNDETECTABLE TO PERSONS. IN THE AIR, EVEN WHEN ADEQUATE OXYGEN IS PRESENT, EXPOSURE TO CARBON DIOXIDE CAN LEAD TO CO<sub>2</sub> POISONING. AN ADDITIONAL HAZARD CAN BE NO FLY - POLICE STATE AND LOCAL BUILDING AND FIRE CODES.

- RECOGNIZE AND BE AWARE OF AREAS WHERE CO<sub>2</sub> CAN ACCUMULATE**
  - CO<sub>2</sub> CAN ACCUMULATE IN:
    - AREAS WHERE CO<sub>2</sub> IS STORED OR USED, INCLUDING ADJACENT AREAS.
    - CONFINED, ENCLOSED, OR LOW-LYING SPACES.
    - AREAS WHERE CO<sub>2</sub> IS VENTED.
  - UNDERSTAND AND ADHERE TO POSTED WARNING SIGNS.
- MONITOR AND VENTILATE FOR CO<sub>2</sub> AS REQUIRED BY CODE**
  - CO<sub>2</sub> CAN ACCUMULATE TO DANGEROUS LEVELS EVEN WHEN ADEQUATE OXYGEN IS PRESENT FOR LIFE SUPPORT.
  - MEASURING OXYGEN CONTENT IS NOT AN EFFECTIVE INDICATION OF THE CO<sub>2</sub> POISONING HAZARD.
  - MAINTAIN ADEQUATE VENTILATION.
  - USE CO<sub>2</sub> DETECTORS WITH ALARMS AND VISUAL WARNING DEVICES. ROUTINELY INSPECT, MAINTAIN, AND CALIBRATE DETECTORS.
- NEVER MODIFY OR TAMPER WITH CO<sub>2</sub> SYSTEMS OR EQUIPMENT**
  - CHANGES TO THE GAS SYSTEM CAN CREATE LEAKS OR OTHER HAZARDOUS SITUATIONS. SOME VALVES, REGULATORS, HOSES, AND EQUIPMENT USED FOR OTHER GASES ARE NOT COMPATIBLE WITH CO<sub>2</sub>.
  - DO NOT MODIFY OR TAMPER WITH GAS SUPPLIER OWNED EQUIPMENT.
  - SYSTEM CHANGES SHALL BE EVALUATED AND MANAGED ONLY BY QUALIFIED PERSONS.
- USE REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE)**
  - REFRIGERATED LIQUID CO<sub>2</sub> AND DRY ICE ARE EXTREMELY COLD AND CAN PRESENT FROSTBITE ON CONTACT. IF SWALLOWED, LIQUID CO<sub>2</sub> AND DRY ICE CAN CAUSE SERIOUS INJURY OR DEATH.
  - WEAR GLOVES AND EYE PROTECTION WHEN HANDLING EQUIPMENT CONTAINING CO<sub>2</sub>. ADDITIONAL PPE MAY INCLUDE HEARING PROTECTION, SUPPLIED AIR BREATHING APPARATUS, PERSONAL MONITOR, AND SAFETY SHOES. SEE SAFETY DATA SHEET (SDS) FOR GUIDANCE.
- NEVER ENTER AN AREA OF HIGH CO<sub>2</sub> CONCENTRATION WITHOUT PROPER TRAINING AND PPE**
  - ENTERING AREAS WHERE HIGH CONCENTRATIONS OF CO<sub>2</sub> EXIST CAN PRESENT AN IMMEDIATE DANGER TO HUMAN LIFE.
  - BREATHING IN HIGH LEVELS OF CO<sub>2</sub> CAN CAUSE HEADACHE, DIZZINESS, RAPID BREATHING, INCREASED HEART RATE THAT CAN LEAD TO UNCONSCIOUSNESS AND DEATH.
  - ESTABLISH, KNOW, AND PRACTICE EMERGENCY PROCEDURES. EMERGENCY RESCUE SHALL ONLY BE INITIATED BY TRAINED PERSONNEL WHO HAVE THE NECESSARY EQUIPMENT AND SUPPORT.

**GAS SUPPLIER**

**CGA**  
Compressed Gas Association  
The Standard For Safety Since 1913

SCAN HERE FOR MORE INFORMATION OR VISIT [WWW.CGANET.COM](http://WWW.CGANET.COM)

REFERENCES:

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