



If your business has 1000 (or more) cubic feet of CO₂ or N₂ onsite, you are required by law to:

1. Submit a Hazardous Materials Business Plan (HMBP) to the California Environmental Reporting System (CERS), an online reporting system. This process will register you with Contra Costa Health Services, Hazardous Materials Programs (CCHSHMP) as a hazardous materials storage facility regulated under HMBP
2. Pay invoice for program fees
3. Obtain a permit to operate from CCHSHMP

How to apply for and obtain a Facility Permit:

1. Create a CERS account and a Hazardous Materials Business Plan (HMBP).
Instructions for obtaining a CERS account and how to make the required submittal is available on our website:
<https://cchealth.org/hazmat/cers-new.php>
2. CCHSHMP will conduct an inspection at your business facility. During the initial compliance inspection, you will be issued an inspection report with any Notices to Comply/Notices of Violation for observed program deficiencies and a timeframe to correct them.
 - a. Future compliance inspections will be conducted every 2 years.
3. An invoice (bill), based on the hazardous materials located at your facility, will be sent to your business.
A fee schedule is available on our website:
<https://cchealth.org/hazmat/pdf/cupa/fee-resolution.pdf>
 - a. Invoices are sent out annually, after initial permit.

Facility Permits are renewed annually. CCHSHMP will send out a reminder notice with information about Annual Submittals in CERS, due each year by **March 1st**.

Your facility is required to review and submit HMBP information electronically.

Restaurants, Bars, Breweries and Large Entertainment Venues:
Compliance instructions for food and beverage facilities that use Carbon Dioxide (CO₂) or Nitrogen (N₂)



For more information, visit:

www.cchealth.org/hazmat
or call CCHSHMP at
(925) 335-3200



Did you know that the risk of a Carbon Dioxide (CO₂) and Nitrogen (N₂) release increases when stored in bulk tanks? Serious injury and death have occurred from exposure to CO₂ and N₂

They are colorless, odorless gases that – if released – can harm people.

Health Risks include:

- Asphyxiation (suffocation)
- Dizziness
- Drowsiness
- Disorientation
- Skin and tissue burns (Frost Bite/Freezer Burns)
- Death

Hazardous Materials Business Plan (HMBP)

Your business is required to submit an HMBP if you store 1000 cubic feet (or more) of CO₂ or N₂ onsite.

Carbon Dioxide (CO₂)

Volume in Pounds		Volume in Cubic Feet*		Volume in Gallons** (amount reported in CERS)
115	=	1,005	=	13.6
300	=	2,623	=	35.5
350	=	3,060	=	41.4
400	=	3,497	=	47.3
450	=	3,934	=	53.2
500	=	4,371	=	59.1
750	=	6,557	=	88.6
1000	=	8,743	=	118.2

*Conversions based on 8.743 cubic feet per pound (70°F & 1 atm)

** Conversions based on 0.118 gallons per pound at 300 psig

Nitrogen (N₂)

Volume in Liters		Volume in Cubic Feet*		Volume in Gallons** (amount reported in CERS)
41		1,000		10.8
80	=	1,968	=	21.1
160	=	3,936	=	42.3
180	=	4,428	=	47.6
200	=	4,920	=	52.8
250	=	6,149	=	66.0
280	=	6,887	=	74.0
300	=	7,379	=	79.3
350	=	8,609	=	92.5
450	=	11,069	=	118.9

*Conversions based on 24.598 cubic feet per liter (70°F & 1 atm)

** Conversions based on 0.264 gallons per liter

The HMBP is used to:

- Prepare first responders (e.g. firefighters, police, EMTs) so that they can safely respond to incidents at your business
- Inform the public where hazardous materials are stored in their community
- Inform employees of workplace hazards and appropriate emergency response procedures

The HMBP must:

- Be site-specific
- Be prepared by the business owner or agent
- Describe the hazardous materials stored at your business
- Include a contingency plan

The HMBP must include the following information:

- Business owner(s)/operator(s)
- Business activities
- Inventory of Hazardous Materials
- Map(s) indicating the location of the business, hazardous materials storage areas, exits, safety equipment, etc.
- Contingency plans for emergency response, including fires, earthquakes, spills, and other accidents involving hazardous materials

