

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

Register with the City of El Segundo UPA as a hazardous materials storage facility.

1. Submit a Hazardous Materials Business Plan (HMBP) to the California Environmental Reporting System (CERS), an online reporting system.
2. Apply for and obtain a permit from the City of El Segundo UPA.



Obtain a Consolidated Permit

- Obtain a CERS account.
- Make the required CERS submittals.
- Pay your consolidated permit fee.
- The El Segundo UPA will issue a consolidated permit. All permits expire on June 30th. The permit must be renewed annually.
- The UPA will send annual renewal invoices to you prior to the permit expiration date.
- Please be sure to have your contact information up-to-date in CERS.
- Future inspections will be conducted every 3 years.

The El Segundo Fire Department UPA bills annually for consolidated permits.

www.elsegundofd.org



RESTAURANTS, BREWERIES AND LARGE ENTERTAINMENT VENUES:



COMPLIANCE INSTRUCTIONS FOR FOOD AND BEVERAGE FACILITIES THAT USE CARBON DIOXIDE (CO₂) OR NITROGEN (N₂)



City of El Segundo

FIRE DEPARTMENT
ENVIRONMENTAL SAFETY DIVISION

Did you know that the risk of CO₂ and N₂ off-gassing increases when stored in bulk tanks? Did you know that serious injury and death have occurred from exposure to CO₂ and N₂?

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



Risks Include:

- Asphyxiation (suffocation)
- Skin & tissue burns (frost bite/freezer burns)
- Dizziness



- Drowsiness
- Disorientation
- Death

HAZARDOUS MATERIALS BUSINESS PLAN (HMBP)

Your business is required to submit an HMBP if you store 1,000 cubic feet (or more) of CO₂ or N₂ onsite.

Carbon Dioxide (CO₂)

Volume in Pounds		Volume in Cubic Feet*
300	=	2,430
350	=	2,835
400	=	3,240
450	=	3,645
500	=	4,050
750	=	6,075
1,000	=	8,100

*Conversions based on 8.1 cubic feet per pound

Nitrogen (N₂)

Volume in Liters		Volume in Cubic Feet*
80	=	1,811
160	=	3,600
180	=	4,079
200	=	4,525
250	=	5,661
280	=	6,340
300	=	6,793
350	=	7,927
450	=	10,198

**Conversions based on 3.785 liters/gallon and 87.5 cubic feet/gallon



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 (upon request) 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 proper use and handling of hazardous materials stored at your business.
- Include a contingency plan for spills and other emergencies.

The HMBP must include:

- 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.

Your HMBP must be submitted electronically through the California Environmental Reporting System ([CERS](#)).