County of San Diego Department of Environmental Health, Hazardous Materials Division Brewery Educational Seminar

for hazardous materials/waste requirements

The County of San Diego Hazardous Materials Division (HMD) regulates the storage and disposal of hazardous material/waste. Breweries may use hazardous materials such as compressed gases, cleaning chemicals, sanitizers, and neutralizers. Under state law and county ordinance, if a facility handles or stores hazardous materials at or above 55 gallons, 500 pounds, or 200 cubic feet of compressed gas, a hazardous materials business plan is required. The HMD ensures that businesses are aware of the Federal, State and local requirements regarding hazardous materials. To protect public health and environment, the HMD enforces the regulations and laws by conducting inspections and also provides regulatory guidance and educational outreach to assist facility owners.

The seminar will explain the following:

- State laws and regulations for hazardous materials and hazardous waste
- What is the Unified Program Facility Permit (UPF Permit)
- Hazardous Materials Business Plan requirements
- · How to obtain a UPF Permit
- Hazardous Waste Requirements





BREWERY HAZMAT SEMINAR

THE COUNTY OF SAN DIEGO DEH - HAZARDOUS MATERIALS DIVISION

WELCOMES

YOU TO THE

BREWERY HAZMAT SEMINAR

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Introduction

Certified Unified Program Agency (CUPA) designated to be the local regulatory agency by California EPA in 1996

What is the Unified Program?

- The Department of Environmental Health, Hazardous Materials Division (**HMD**) is the CUPA for San Diego County.
- The HMD regulates 6 different programs:
 - ► Handle or store Hazardous Materials
 - Are part of the California Accidental Release Prevention Program
 - Generate or treat Hazardous Wastes
 - Generate or treat Medical Waste
 - Store at least 1320 gallons of Aboveground Petroleum
 - Own or operate Underground Storage Tanks

Unified Program Facility Permit (UPF Permit)

- A UPF Permit is required for facilities that are subject to any one of the programs mandated by state law and county hazmat ordinance.
- 16 breweries have applied for the UPF Permit in the last 10 years.

Hazardous Materials Business Plan [HMBP]

Health & Safety Code Sec. 25500...

Purpose of HMBP

- Emergency preparedness and planning
- Chemical release/immediate spill reporting
- Sharing of hazmat inventory information with first responders
- Requiring basic hazmat emergency training of employees that handle the materials

Hazardous Materials and Waste













What is a hazardous material?

- ► Health & Safety Code Chapter 6.95 Sec. 25501
- "Hazardous materials" include all of the following:
 - Manufacturer/Producer was required to prepare a Safety Data Sheet
 - Regulated by the Department of Transportation as a hazardous material
 - Hazardous Waste
 - Radioactives
- <u>EXAMPLES:</u> Biofine Clear (<u>Safety Data Sheet</u>), Acid Cleaner 3-AB (<u>Safety Data Sheet</u>)

Report >55 gallons liquid



Report ≥ 200 cubic feet compressed gas





Report > 500 lbs solid



Reporting waste generation

Report all hazardous waste generated



A Hazardous Materials Business Plan includes:

- Facility Information Business Owner/Operator Identification
- Reportable Chemical Inventory Thresholds
 - → 55 gallons
 - 500 pounds
 - 200 cubic feet of a compressed gas
- Site Map
- Emergency Response Plan
- Employee Training Description

More information will be presented during the CERS portion.

HMBP Requirements

- Your HMBP is submitted via the California Environmental Reporting System (CERS) http://cers.calepa.ca.gov
- Annual Recertification by the facility is required or within 30 days of a significant change
- HMBP must be readily available for review during inspections

Brewing Process Overview

Mill



Mash



Boil/Kettle



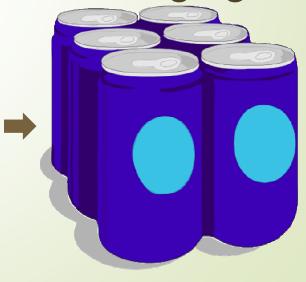
Fermentation



Filtration



Packaging



- Brewing Additives
 - salts: sodium chloride or calcium chloride
 - -calcium sulfate









- Filtration Materials/Aids
 - Clarifiers (Polyclar)
 - Stabilizers (silica powder)







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- Cleaning Solutions:
 - -Water Treatment
 - -Neutralizing
 - -Vat Cleaning
 - -Cleaning in Place
 - -Propylene Glycol
- Chemical Additives
- Lubricating Oils for Machinery
- Diesel (Generator)

- CIP chemicals
 - Caustic (NaOH, KOH)
 - Acid blends
 - Peracetic Acid (PAA), Iodine
 - Hydrogen Peroxide









Packaging Components

- Glues
- Ink/Solvents
- Lubricants
- Refrigerants
 - Ammonia
 - Glycol
 - **Freons**









Compressed Gases







- Acetylene
 - Nitrogen
- Hydrogen
 - Argon
 - Oxygen
 - Helium
- Propane (LPG)





Questions?

Hazardous Materials Division

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