Hazardous Waste Handling for Business

Eileen Woodbury
Monterey County Health Dept.
Environmental Health Bureau
- BRIEF overview of Hazardous Waste Determination Procedures
- Hazardous Waste storage & handling, disposal
- Common hazardous wastes and how to manage
Hazardous Waste determination procedures

1. Is the material a *waste*?
   - Is the material a *hazardous waste*?

2. Is the waste excluded or exempted?

3. Is the waste listed in Article 4 or 4.1?

4. Is the waste listed in Appendix X?

5. Does the waste exhibit a characteristic of hazardous waste?
Hazardous Waste determination
Laws & Regulations references


- For California Code of Regulations sections, see http://www.oal.ca.gov, click ‘California Code of Regulations’, ‘Title 22’, ‘Division 4.5’

- For all hazardous waste fact sheets, general guidance, and more, see http://www.dtsc.ca.gov
Storage Containers

1. Containers in good condition with tight fitting lids
2. Compatible with wastes stored
3. Kept closed when not in use
4. Handled or stored in a manner to prevent rupture or leakage

*Secondary Containment !!*

5. Inspect
Storage and Handling

1. Need proper containers and locations

2. Need labels and signs

3. Need not exceed proper accumulation times
HAZARDOUS WASTE
USED MOTOR OIL
STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

Waste Accumulation & Pick-Up Record

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<tr>
<th>START</th>
<th>PICK-UP</th>
<th>MANIFEST NUMBER</th>
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D.O.T. Proper Shipping Name:

**N.O.S. California Regulated Only (Used Motor Oil)**

Contents Composition: **Used Motor Oil Liquid**

Physical State: **Liquid**

Cal Waste No.: **221**

Generator Information:

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<th>NAME</th>
<th>PHONE</th>
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<td>ADDRESS</td>
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Handle With Care!
USED OIL FILTERS

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

D.O.T. PROPER SHIPPING NAME:
NON-RCRA HAZARDOUS WASTE SOLID (USED OIL FILTER)

CONTENTS COMPOSITION: USED MOTOR OIL FILTER SOLID

PHYSICAL STATE: SOLID

CAL WASTE NO: 221

GENERATOR INFORMATION:

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<tr>
<td>EPA ID #</td>
<td>ZIP</td>
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HANDLE WITH CARE!
Transportation, Disposal & Record Keeping

1. Generator must have EPA ID Number

2. Waste must be hauled by state registered transporter, or self-hauled to appropriate facility or...

3. Records of all waste removed must be kept at least three years
   - Manifests - Original and copy signed by TSDF
   - Receipts – Milk Run collections
Common Hazardous Wastes and Management Standards
Common Hazardous Wastes

- Used Oil
- Antifreeze
- Oily water
- Latex paint
- Oil filters
- Fuel filters
- Sanding Waste
- Aerosol Cans
- Empty Containers
- Universal Waste (e-waste)
- Empty Pesticide Containers
- Used Oil Debris, Absorbent, Saturated Rags
Used Oil

• A waste can be hazardous by being “used oil,” or
• By being contaminated with or containing used oil.
• Does not have to exhibit a characteristic.
Used Oil

Can self-transport waste oil to facility that is a registered used oil collection center without a manifest;

*With* prior approval,

- Largest Container 55-gal / no more than 55 per load

*Without* prior approval,

- No more than 20 gal
- Must be in 5-gal containers or smaller
“Recyclable latex paint” means any water-based paint, still in liquid form, transferred for the purposes of being recycled.

Liquid Latex Paint, shall not be disposed to land or waters of the State.

*Intentional* air drying or mixing with any substance to solidify and dispose is illegal, e.g. treatment of hazardous waste.

May be recycled at a facility that is not permitted by DTSC.
- Facility must handle Paint safely, and have a Business Plan per H&SC 25500.

If Latex Paint is not recyclable, must be managed as hazardous waste.

Bills of Lading for management, kept on site for 3 yrs.
Used Oil Filters

*CCR 66266.130 and H&SC 25250.22*

- Rules adopted to encourage recycling
- Drain and collect ‘free-flowing’ oil
  - Manage used oil properly
- Contain, label, store Used Oil Filters
  - “Drained Used Oil Filters”
  - Initial date of accumulation
  - Rainproof, non-leaking, closed containers
  - Closed and sealed during transportation
- Generators store up to 1 ton (9 55-gallon drums of uncrushed or 6 drums of crushed filters) for up to 1 year, 1 ton or more remove within 180 days unless authorized by DTSC
Used Fuel Filters

_H&SC 25250.22_

- As of Jan. 1, 2005 (AB 2254), Used Gas and Diesel Fuel Filters managed same as Used Oil Filters
- Must be drained of ‘free flowing’ liquid
- Recycled for scrap metal content
- Gasoline Used Fuel Filter:
  - Stored in container designed to prevent ignition, labeled “Used Oil and Gasoline Filters”
  - Stored per local Fire Code
Sanding Waste
DTSC P2 Factsheet

- Sanding Waste assumed hazardous based on heavy metals such as cadmium, chromium, nickel, copper, lead, zinc
- Don’t dispose of dry or wet waste into sewer, storm drain or trash, unless generator determines waste is non-hazardous
- Dry Sanding BMP,
  - Use high velocity, low volume vacuum with HEPA filter
  - Do not wash dust outside the shop or into storm drain
- Wet Sanding BMP,
  - Use spray bottle to wet surface,
  - Use a clarifier to collect sanding waste, water waste then discharged to sewer,
  - Do not dispose of sludge to sewer
Aerosol Cans

**HSC 25201.16(e)(f)(g)**

Required to treat Aerosol Cans as universal waste

- Non empty aerosol cans are hazardous waste.
  - Damaged or clogged
  - Propellant has been exhausted
  - Owner no longer wants product
- Empty aerosol cans can be recycled or placed into the trash
- Qualified handlers can process containers
  - Puncturing, draining, and crushing
- Labeling
  - Universal Waste-Aerosol Cans
  - Waste Aerosol Cans
  - Used Aerosol Cans
Empty Containers

*CCR 66261.7*

- Hazardous Waste container is considered empty if,
  - When inverting container, not ‘free flowing’,
  - Non-pourable material is removed by scraping and chipping,
  - Acute or Extremely hazardous waste is,
    - Triple rinsed with solvent capable of removing the material
- Exempt containers must be,
  - Reclaimed, reconditioned or remanufactured to scrap metal onsite, or
  - Send to a facility that reclaims containers for scrap
- Reuse of a drum after waste has been removed is allowed under HSC 25143.2
- Empty containers of 5 gallons or less may be disposed. Contact solid waste facility to determine disposal
Empty Pesticide Containers  
CCR 66262.70

Waste pesticide containers and rinsate from commercial farming operations are exempt from hazardous waste regulation if managed accordingly, and provided the waste pesticide is applied as part of a commercial farming operation consistent with pesticide label:

Container and inner liner, if present, are drained of contents and both triple rinsed with a liquid capable of dissolving the pesticide; and

(1) Container or inner liner punctured, shredded, crushed to prevent subsequent use or reuse and is disposed of; or

(2) Container is punctured, shredded, crushed to prevent use or reuse and is recycled by reclaiming its scrap value; or

(3) Container is reused per CH&SC 25143.2(d)(6)
Contaminated Textiles
H&SC 25144.6

• Shop towels, uniforms, gloves, linens, etc. soiled with hazardous waste are exempt if all the following are met:
  - Made reusable by a commercial laundry,
  - Not subject to RCRA regulation,
  - Not used to clean up or control a spill,
  - No hazardous waste has been added after the materials’ original use,
  - No free liquids are released during transportation or storage of materials.
Universal Waste
Universal Waste (UW)

All Universal Wastes **must** be sent to

- Another location for consolidation or storage:
  - Within your business or
  - To a UW Consolidator
- A hazardous waste recycling facility
- A hazardous waste land disposal facility for universal wastes that are not required to be recycled.
Questions?

Call your Monterey County hazardous waste specialist at 831-755-4511