

Identification and Management of Used Oil

OVERVIEW

HAZARDOUS WASTES

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graph TD; HW[HAZARDOUS WASTES] --> T[“Typical” Hazardous Wastes]; HW --> R[“Used Oil” Being Recycled];
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“Typical” Hazardous Wastes

Managed under
Env-Hw 500

“Used Oil” Being Recycled

Hazardous, but
usually managed
under Env-Hw 807

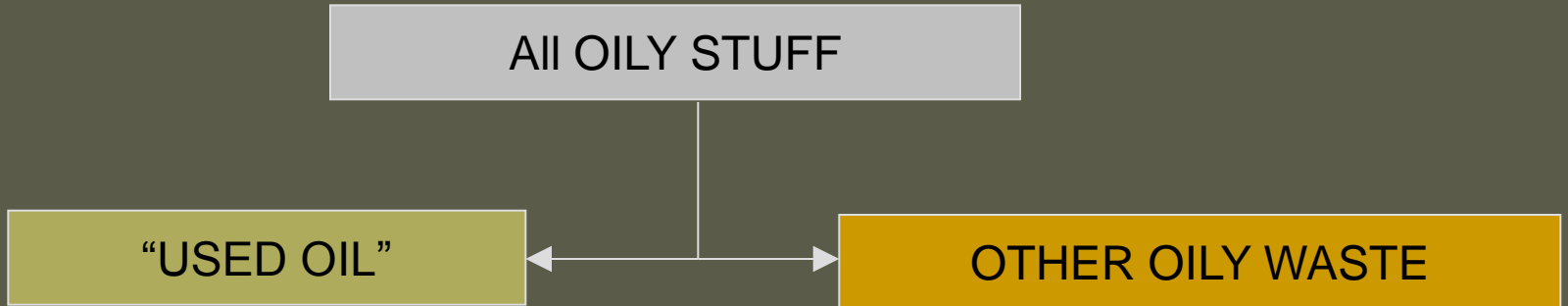
How To Identify “Used Oil”:

1. Compare to “used oil” definition
 - Env-Hw 104.74
 - Do you have a different “oily” waste?
2. Ensure that it’s being recycled
3. Verify that you haven’t mixed with another waste that’s hazardous
4. Establish the level of contamination

All OILY STUFF

“USED OIL”

OTHER OILY WASTE



“USED OIL”

- Derived from crude or synthetic
- Lubricant
- Cooling oil
- An emulsion, oil/water cutting oils
- Certain other uses
- Water with >5% used oil content

If recycled, managed
under Env-Hw 807

OTHER OILY WASTE

- Vegetable oil
- Oily water with 5% used oil or less
- Solids contaminated with oil
(absorbents, rags, soil...)
- Anything used as a solvent
- Anything used as a cleaner
- Wood preservatives

These are NOT “NH01”. They either:
-are either hazardous for another reason,
or are non-hazardous

They might be regulated as a hazardous waste
They might be non-hazardous

**“Used oil for recycle” must be...
RECYCLED!**



**Re-refining; or
Burning for Energy Recovery
-get a value from the burning**

“Used oil for recycle” must be JUST
used oil for recycle

◆ **Used oil mixed with any other hazardous waste is not used oil!**

- Perform a full hazardous waste determination. (5 step process)
- Assign all waste codes that apply.

“Used Oil for Recycle” must have low levels of contaminants

◆ You need an

“Initial Used Oil Determination”

to find the contaminant levels

◆ One-time analysis

Four Metals



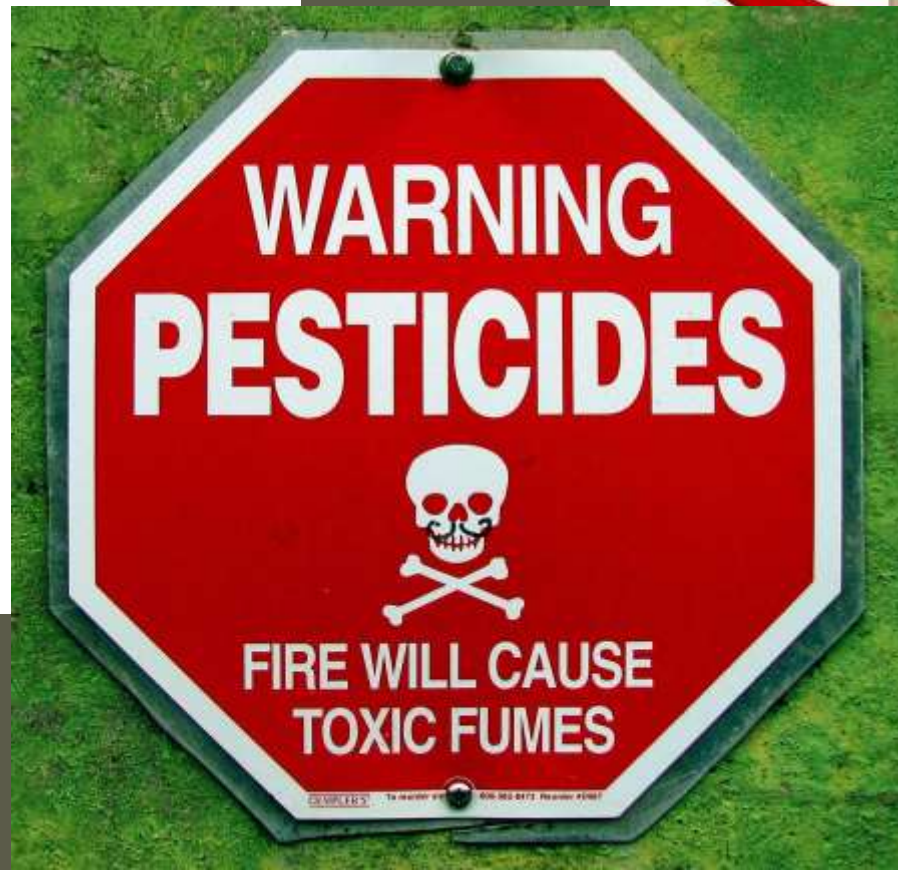
48
Cd
Cadmium
112.411

Cd 48
112.411
Cadmium

Flashpoint



Total Halogens



PCBs



What do I do with the test results?

- ◆ Compare to the tables in Env-Hw 807.02, “Specification Standards”, and Env-Hw 807.03, “Off-Specification Standards”
- ◆ “specification” used oil
- ◆ “off-specification” used oil

What if the results fail the off-specification standard?

- ◆ Your used oil must be managed like other hazardous wastes under the more strict rules, **UNLESS.....**

One exception... Total halogens

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Severely refined mineral oil
CAS NUMBER: 64742-65-0
EC NUMBER (EINECS): 265-169-7
PERCENTAGE: 75-80

COMPONENT: Solvent dewaxed heavy paraffinic distillates
CAS NUMBER: 64742-65-0
EC NUMBER (EINECS): 265-169-7
PERCENTAGE: 15-20

COMPONENT: Chlorinated paraffins
CAS NUMBER: 63449-39-8/61788-76-9
EC NUMBER (EINECS): 264-150-0/263-004-3
PERCENTAGE: 2-5

COMPONENT: Petroleum hydrocarbons
CAS NUMBER: 64742-58-1
EC NUMBER (EINECS): 265-161-3
PERCENTAGE: 0-2

COMPONENT: Methacrylate copolymer
CAS NUMBER: NA
EC NUMBER (EINECS): NA
PERCENTAGE: 0-1

- ◆ If total halogens are >1000 ppm
 - solvents or pesticides?
- ◆ rebut the presumption“ of mixing – prove us wrong!
 - Can be considered off-spec. used oil

What's so great about Env-Hw 807?

- ◆ USED OIL FOR RECYCLE:
 - Doesn't count toward generator status
 - Can be stored indefinitely
 - Can be shipped without a manifest in NH
 - Is not subject to the hazardous waste fee (\$0.06/lb.)
 - is a lot cheaper to get rid of!!

Anything else I need to know?



Label Containers and Tanks!

- “used oil for recycle”

Close!

- Containers and tanks storing used oil are closed unless actively adding or removing used oil
 - ◆ Draining filters is considered “actively adding” if drained for a reasonable amount of time

Used Oil Filters

- ◆ **Properly Drain, and recycle as a scrap metal**
 - Puncture the dome end;
 - Drain at 60°F or warmer;
 - Drain for at least 12 hours; OR
 - Crush or dismantle to remove remaining oil

Used Oil Burner Regulations

- ◆ Env-Hw 807.10 was written for *you!*
 - Notify DES Waste Mgmt. (271-2921)
 - ◆ Notification Form
 - Notify DES Air Resources (271-1370)



Respect the waste!

**Small drips and spills
add up to big trouble!**