Chemical Storage
&
Disposal
In the Home

The Problem

- 1.6 Million Tons of Household Hazardous Waste Generated Each Year in the U.S.
- Average Home: 100 lbs per year
- Improper Storage and Disposal = Danger to Human Health and Environment

Dangers

- Can be harmful to family, children and pets
- May pollute water, groundwater, soil and air
- Corrosives may damage plumbing systems
- May be poisonous to soil and plants

Home Toxics

- Home & Hobby
  - asphalt or roofing tar
  - drain cleaners
  - mildew removers
  - oil paints
  - paint thinners and solvents
  - photographic chemicals
  - varnishes and refinishers
- Automotive
  - antifreeze
  - brake fluid
  - engine cleaners
  - gasoline
  - motor oil
  - transmission fluid

Home Toxics

- Yard and Garden
  - fertilizers
  - fungicides
  - herbicides (weed killer)
  - insecticides
  - pesticides
- Household
  - Ammonia-based cleaners
  - Drain cleaner
  - Oven cleaner
  - Furniture polish
  - Bathroom cleaner
  - Nail polish and remover
  - Medicine
  - Glue
  - Lighter fluid

Reduce

<u>Less is More</u>

Buy only what you need

Do not overapply fertilizers

Prevent automotive fluids from running-off

Proper Storage

- Cool, dry places
- Keep in original containers
- Clearly labeled
- Do not mix – Incompatibles may react, ignite or explode

Improper Disposal

- Never Dump Waste in a Storm Drain

Improper Disposal

- Do Not Dump Wastes in Regular Trash

Improper Disposal

- Do Not Pour Chemicals down Drains or Toilet
- May Damage Septic Systems or Wastewater Treatment Systems

Improper Disposal

- Improper use of used oil receptacles on campus

Improper Disposal

Would You Drink It?

Would You Pour It In Your Fish Tank?

?

Non-Toxic Alternatives

- **Mildew Remover:** Spray undiluted vinegar on surface, wait 1/2 hour, scrub with hot water
- **Abrasive Cleanser:** Baking soda; Bon Ami brand cleanser; salt and lemon juice
- **Floor cleaner:** Mop floors with 50/50 mix of vinegar and hot water, let stand for 1/2 hour, wipe clean with damp cloth or mop

Non-Toxic Alternatives

- **Oven Cleaner:** Baking soda and water
- **Bleach:** Washing soda; Borax brand detergent
- **Wood Preservative:** Urethane
- **Pesticides:** Boric acid for roaches; soap sprays; salt water or hot pepper sprays

Non-Toxic Alternatives

- **Flea Collars, Sprays, Soaps:** Collars using pyrethrin
- **Drain Cleaner:** flush with hot water, 1/4 cup baking soda and 1 cup vinegar
- **Furniture/Floor Polish:** Murphy's Oil Soap; mineral oil

Home Toxics Reduction Center

Western County Service Center, (734) 222-6865

705 N. Zeeb Road

Hours: Saturdays 9-12 after April 5, Winter by appt. only

Home Toxics Information Line, (734) 222-3950

www.ewashtenaw.org - Planning and Environment

Acceptable Items

- acids and bases,
- adhesive, glue (solvent based)
- aerosols, oven cleaners (except empty cans)
- artist and hobby paint
- asphalt and roofing tar
- break fluid
- cleaners and polishes
- DDT and chlordane
- degreaser
- diesel fuel
- drain cleaners and lye
- fabric dye
- fertilizer (dry)
- fertlizer with weed killer
- flammables (gasoline, starting fluids, gasoline/motor oil mix)
- floor wax/stripper
- fluorescent tubes/bulbs
- furniture polish
- gasoline
- home repair products (glues, caulking)
- household batteries
- insecticide
- kerosene
- mercury (thermometers and thermostats)
- metal cleaner
- mothballs
- nail polish remover
- needles and other sharps (ONLY in approved containers: call the information line below)
- oven cleaner
- oil based paint (NOT latex- see below for disposal information)
- paint or primer, latex (with lead)
- paint or primer (oil-based)
- paint thinners, removers, and strippers, solvents, varnishes, kerosene
- pesticides and herbicides
- pet care products
- photography chemicals
- rat/rodent poison
- rust remover
- spot remover
- stain and varnish
- swimming pool chemicals
- syringes
- weed killer
- wood preservatives

Unacceptable Items

- antifreeze
- asbestos
- car batteries
- empty containers
- explosives and ammunition
- latex paint (this can be dried out with cat litter and disposed of in the garbage)
- medication
- propane tanks
- radioactive materials (including smoke detectors)
- tires
- transmission or brake fluid
- used motor oil
- products in milk jugs

Washtenaw County Drop-Off Station

2950 E. Ellsworth Road near Platt Road.

Hours: Mon-Fri 9 a.m.-6 p.m., Sat 9 a.m.-5 p.m. (From April-Oct., open weekdays only until 6 p.m.)

Phone number: 971-7400

www.recycleannarbor.org

Acceptable Items

Automotive Waste (with fee)

- CAR TIRES
- TRUCK TIRES
- TRANSMISSION FLUID
- ANTIFREEZE
- BRAKE FLUID
- MOTOR OIL : no fee (limit 5 gallons)
- OIL FILTERS : no fee (limit 5 filters)

Special Items (with fee)

- FLORESCENT LIGHT TUBES
- FREON APPLIANCES
- MONITORS & TVs
- DESKTOP COMPUTERS, PRINTERS, VCRs, STEREOS
- LARGE OFFICE PRINTER & COPIERS
- CDs
- 3.5" COMPUTER DISKS
- AUDIO & VIDEO TAPES

Acceptable Items

Recyclables (no fee)

- #2 AND #4 PLASTIC BAGS
- MIXED PAPER
- MIXED CONTAINERS
- STYROFOAM
- TEXTILES
- SHOES
- HARDCOVER BOOKS
- RECHARGABLE BATTERIES

Tipwall Items (with fee)

- FERROUS (STEEL) METALS
- YARD WASTE
- HEAVY WASTE
- LIGHT WASTE
- PROPANE TANKS
- NON-FERROUS METALS
- UNFINISHED WOOD

Recycle: Antifreeze

Amoco South Main
402 S. Main St., Ann Arbor
761-1170

Ashley's Auto Service
509 S. Ashley St., Ann Arbor
665-5212

Brewer's North Campus Service
1763 Plymouth Rd., Ann Arbor
663-6019

Chelsea Amoco Service
1630 S. Main St., Chelsea
475-2722

Dan's Westside Automotive
660 W. Main St., Manchester
428-9455
Drop off: Mon-Fri 8-6, Sat 9-2

Firestone
3507 Washtenaw Ave., Ann Arbor
(Arborland Mall)
677-0668

Firestone
500 Briarwood Circle, Ann Arbor
(Briarwood Mall)
769-1485

J.B.'s Sunoco
325 W. Liberty St., Ann Arbor
769-3041

Lakes Radiator Service
319 N Huron St., Ypsilanti
485-2500

Uncle Ed's Oil Shoppe
3160 Washtenaw Ave., Ann Arbor
971-7810

Ypsilanti Township Compost Center
2600 Clark Rd., Ypsilanti
482-6681

Recycle: Motor Oil

Ann Arbor

- Ann Arbor Shell, 3240 Washtenaw Ave., 973-1350
- Ashley's Auto Service, 509 S. Ashley St., 665-5212
- Brewer's North Campus Service, 1763 Plymouth Rd., 663-6019
- Broadway Marathon, 1026 Broadway St., 662-5552
- Colonial Amoco, 3550 Plymouth Rd., 761-6513
- Eurotech Motors, Inc., 3728 Trade Center, 973-6335
- Firestone Huron, 402 E. Huron St., 769-9040
- Golfside Shell, 4975 Washtenaw Ave., 434-9707
- Goodyear Auto Service, 2260 W. Stadium Blvd., 994-5100
- Illi's Auto Service, 401 W. Huron St., 665-5011
- Imperial Auto Service, 2344 Dexter Ave., 761-3888
- Japanese Auto Professional, 563 S. Main St., 996-4606
- Jourden's Automotive Service, 2115 S. State St., 761-8006
- K and N Automotive, 1240 Hewitt St., 665-9944
- Main Street Motors, 906 N. Main St., 663-5544
- Murray's Discount Auto Store, 2182 W. Stadium Blvd., 996-4100
- Ann Arbor Auto Care, 3880 Jackson Rd., 769-4494
- Stadium Mobil, 2025 W. Stadium Blvd., 662-6293
- Town and Country Auto Recycling, 3127 S. Wagner Rd., 668-8814
- True Tech Automotive Repair, 2075 S. Industrial Hwy., 668-4022
- Uncle Ed's Oil Shoppe, 3160 Washtenaw Ave., 971-7810
- Uncle Ed's Oil Shoppe, 2270 W. Stadium Blvd., 769-2540
- Victory Lane Quick Oil Change, 1880 Packard, 665-5601
- Victory Lane Quick Oil Change, 2185 W. Stadium Blvd., 995-9700
- Westgate Amoco Auto Service, 2625 Jackson Rd., 665-8700

Recycle: Motor Oil

Chelsea
- Chelsea Amoco, 1630 S. Main St., 475-2722
- Faist-Morrow Buick-Olds-Chevy, 1500 S. Main St., 475-8663
- Side Street Garage, 121 Buchanen St., 475-2278
- Victory Lane Quick Oil Change, 920 S. Main St., 475-6377
- Western Washtenaw Recycling Authority, 8025 Werkner Rd., 475-6160

Dexter
- Mark's Auto Service, 8830 Jackson Rd., 663-4876
- Nixon Auto, 8830 Jackson Rd., 663-4876
- Smith's Service Station, 11453 Jackson Rd., 475-8580

Manchester
- Dan's Westside Automotive, 660 W. Main St., 428-9455

Milan
- Ivan's Amoco Service, 1040 Dexter St., 439-1130
- Pittsfield Township
- U.S. 12 and U.S. 23 Mobil, 5480 W. Michigan Ave., 434-8001

Saline
- DJ's Auto, Inc., 116 W. Michigan Ave., 429-9680
- Express Tires- Saline, Inc., 820 W. Michigan Ave., 944-4000
- M & D Auto Service, 200 E. Michigan Ave., 429-9555
- Victory Lane Quick Oil Change, 211 W. Michigan Ave., 944-1001

Whitmore Lake
- Creative Cars, 6628 Whitmore Lake Rd., 663-9150
- George's Auto Repair, 8719 Main St., 449-8460

Willis
- Willis and Bunton Amoco, 10004 Willis Rd., 461-9444

Ypsilanti
- City of Ypsilanti Recycling Center, 651 Rice St., 485-0530
- Gene Butman Ford Sales, Inc., 2105 Washtenaw Ave., 482-8581
- Gipfert's Marathon, 1395 Ecorse Rd., 481-0420
- Mid-Town Auto Service, 1075 Emerick St., 484-0043
- Murray's Discount Auto Store, 2165 Washtenaw Ave., 482-2506
- Q-Lube, 602 E. Michigan Ave., 483-5685
- Spartan Tire and Service Center, 835 Ecorse, 482-1182
- University Chevrolet, 770 James L. Hart Parkway, 481-0210
- Victory Lane Quick Oil Change, 2216 Ellsworth Rd., 572-0590
- Victory Lane Quick Oil Change, 3066 Washtenaw Ave., 434-7722
- Ypsilanti Township Compost Center, 2600 Clark Rd., 482-6681

Recycle: Paint

- **Latex:**
  - Donate to theater group or school
  - Dry out with sawdust or kitty litter. Once dried out, can be safely disposed of with your regular trash.
- **Oil-based:**
  - Donate to theater group or school
  - **Hazardous** – Take to disposal facility or donate

Questions?

Megan Lazar

OSEH Environmental Management

(734) 615-6153

meglazar@umich.edu