

# Household Hazardous Waste Project

Almost every home contains hazardous products, or products that can harm human health or the environment if improperly handled. They are products used in cleaning, home improvements, automobile maintenance, lawn and garden care, hobbies, and a variety of other tasks.

Each year, thousands of people are injured by exposure or accident involving hazardous household products. Because of the dangers they pose, these products require special awareness, handling, and disposal. In order to protect health and environment, every consumer should know how to properly use, store, and dispose of hazardous household products.

The **Household Hazardous Waste Project (HHWP)** promotes the safe use, storage and disposal of hazardous materials by educating consumers to

- identify and avoid potentially hazardous products
- buy only what is needed, use it up completely or share leftovers with someone who can use it
- recycle those materials that can be recycled, and
- dispose of leftover or unwanted products properly

## Managing Household Hazardous Waste

### Household Hazardous Waste Project

Almost every home contains hazardous products. They are used in cleaning, home improvement projects, automobile maintenance, lawn and garden care, and a variety of other tasks. In order to protect our health and environment, we must know how to properly use, store and dispose of these products.

### The dangers of household hazardous products and wastes

Look in any storage cabinet in your home. Do you see products such as paint, paint thinner, pesticides, fertilizers, gasoline, windshield wiper fluid, antifreeze, motor oil, brake fluid, adhesives, batteries, furniture polish, drain opener, and oven cleaner? These products are all hazardous because they contain chemicals that are **corrosive, explosive/reactive, flammable, or toxic**

Though usually safe when used according to label directions, these products can become dangerous when people are unaware, or forget, that they are handling hazardous products.

When hazardous household products are no longer usable or wanted, they become household hazardous wastes. Household hazardous wastes make up only a small percentage of household waste, but they are a serious problem.

Sewage treatment plants have been damaged by household hazardous wastes, resulting in the release of raw sewage and chemicals into streams. Storm drains, which are often used improperly for dumping, are a direct route to nearby waterways. Anything that is poured on the ground may spread or runoff the next time it rains.

Because of the dangers they pose, household hazardous products require special handling and disposal. Our health and environment are at stake, so it is important that each of us take responsibility for the products we use.

## **What you should do**

- Read labels carefully before buying a product. Avoid buying products with labels containing the words. caustic, corrosive, danger, explosive, flammable, poison, toxic, volatile, or warning.
- Use safer products whenever possible. Safer alternative products can be found in stores. Recipes for making your own can be found in books available through most libraries.
- Buy household hazardous products only in the amount you need for the job at hand.
- Follow label directions on how to use a product, and use the recommended amounts. More is not necessarily better, and may be hazardous to your health.
- Avoid hazardous products if you are pregnant.
- Use safety equipment when the label recommends avoiding skin contact, eye contact, or inhalation of vapors.
- Use products up entirely. It is not hazardous waste until it is no longer wanted or usable.
- Share what you cannot use with a friend, neighbor, local business or organization.
- Recycle what can be recycled in your area (waste motor oil, transmission fluid, antifreeze, automotive batteries, button batteries, etc.) Contact local solid waste officials for locations in your area.
- Use this brochure or contact your local solid waste and wastewater authorities to determine how to dispose of specific products.
- Keep products in their original containers with readable labels.
- Safely store the remaining, unusable products in their original containers until a household hazardous waste collection is held in your area.

- Suggest to your elected officials that a household hazardous waste collection program is needed.

### **What you should not do**

- Do not leave products within reach of children or animals.
- Do not allow children to handle or dispose of household hazardous products or waste.
- Do not dump down storm sewers or in the backyard.
- Do not burn or bury.
- Do not put in the trash or pour down the drain before checking the disposal recommendation for that product.
- Do not reuse containers for other purposes.
- Do not mix unless instructed to do so by the label directions.

### **Store products safely**

- Close lids tightly so that products will not dry out, evaporate, or leak.
- Store hazardous products in a locked cabinet away from children and animals.
- Store in a cool, dry area.
- Store away from sources of heat, spark, or flame.
- Store in original containers with label intact.
- If the product container is deteriorating, place the entire container in a plastic bucket or glass jar with a tight-fitting lid. Surround it with a non-flammable absorbent, such as kitty litter, vermiculite, or floor dry, to absorb spills.
- Separate flammables, corrosives, and poisons and store them on separate shelves.

### **Household hazardous waste collections**

Contact your local elected officials to find out what type of household hazardous waste management program is being planned for your area.

### **How to read this chart**

This chart contains disposal recommendations for many common household hazardous products. Always remember, the best disposal option for most hazardous products is not to dispose of them at all! Avoid buying hazardous products. If you must use them, use the products up, share them with a friend or neighbor, or find a business or organization that can use the products.

### **Note**

Among the items that should not be shared are banned or restricted pesticides,

prescription medicines, syringes, and products that are not in original containers or whose labels are not readable.

This chart should be used only as a guideline. Contact your local officials to determine what disposal options exist in your area.

## **Properties**

Hazardous properties may vary depending on the product's ingredients. Refer to the product label for specific product hazards.

Products are considered hazardous if they contain chemicals with one or more of the following properties:

### **corrosive**

chemical action can burn and destroy living tissues or other materials that come in contact

### **explosive/reactive**

can detonate or explode through exposure to heat, sudden shock, pressure, or incompatible chemicals

### **flammable**

can be easily set on fire

### **toxic**

capable of causing injury or death through ingestion, inhalation, or absorption through the skin

## **Disposal method**

**Reuse** means to use the product again. Household solvents, such as paint thinner and paint brush cleaner, can be used over and over. Let the used solvent sit undisturbed in a sealed container until the paint particles settle to the bottom. Carefully pour off the clean solvent and use it again.

### **Warning**

*Since these solvents are flammable, this activity should be done outdoors or with plenty of fresh air and adequate ventilation, and away from sources of heat, spark, or flame.* The sludge that remains after pouring off the clean solvent should be kept in the sealed container and saved for a household hazardous waste collection, or may be able to go to the landfill if it is completely dry (check with your local solid waste officials).

**Triple-rinse container** is the prescribed treatment method for empty pesticide containers. To triple-rinse, fill the container 1/4 full with water (or the solvent

recommended on the product label), close it tightly, and shake or invert so the rinse reaches all inside surfaces. Repeat this procedure two more times. Rinse water should be used to make up the pesticide mixture or applied to the area you are treating following the same precautions used with the full-strength pesticide. Plastic containers should be punctured to prevent reuse. Discard the rinsed container with your trash, or see if the local recycling center will accept triplerinsed glass or plastic containers. **Warning**

*Do not triple-rinse pesticide containers in a household sink, or outside near drinking water wellheads. If you cannot reuse the rinse water, save unrinsed containers for a household hazardous waste collection.*

**Recycle** is the preferred option for any household hazardous product that can be recycled. Contact your local solid waste officials for recycling locations in your area. Try contacting jewelers or hearing aid service stores to see if they will accept button batteries for recycling. Automotive service centers may accept used motor oil, auto batteries, antifreeze, kerosene, and transmission fluid. Theater and art groups, or housing "fix-up" organizations may be happy to receive leftover paint.

**Save for collection** indicates those products that should be saved for a household hazardous waste collection. Contact your local solid waste officials to find out when a collection may be held in your area. If you must wait for a collection, store products safely in their original containers with the labels intact.

**Flush down drain** indicates that a product can be poured down the drain with plenty of water. Contact your wastewater officials before pouring to determine if this recommendation is suitable in your area. If you have a septic tank, additional caution should be taken. Read the product label to determine whether the product might damage your plumbing or your septic system. If you are uncertain, see if the local wastewater plant will accept the product, or save it for a household hazardous waste collection. Never mix wastes while pouring them down the drain. Always pour small amounts at a time to avoid splashing, and flush with plenty of water.

**Put in trash** indicates that a product is suitable for landfill disposal. Generally speaking, empty containers can be thrown away. Liquids should never be disposed of in the trash. Some products are acceptable for landfill disposal if they are hardened or dried up. Contact your local solid waste officials before throwing any hazardous product away.

## AUTOMOTIVE PRODUCTS

Product	Properties	Disposal method
<b>Antifreeze</b>	toxic	recycle
<b>Auto battery</b>	corrosive, toxic	recycle
<b>Brake fluid</b>	toxic	save for collection
<b>Car wax, polish</b>	corrosive, flammable, toxic	save for collection; place in trash only if hardened
<b>Degreaser</b>	flammable, toxic	save for collection
<b>Diesel fuel</b>	flammable, toxic	recycle or save for collection
<b>Gasoline</b>	flammable, toxic	save for collection <small>(use approved safety container; keep away from flame, spark and heat)</small>
<b>Kerosene</b>	flammable, toxic	recycle or save for collection
<b>Motor oil</b>	toxic	recycle <small>(do not mix with anything else)</small>
<b>Transmission fluid</b>	flammable, toxic	recycle or save for collection
<b>Windshield wiper fluid</b>	flammable, toxic	save for collection

## HOME IMPROVEMENT PRODUCTS

Product	Properties	Disposal method
<b>Adhesive and glue</b> (solvent-based)	flammable, toxic	save for collection; place in trash only if hardened
<b>Paint brush cleaner</b> (solvent-based)	flammable, toxic	reuse, or save for collection
<b>Paint — latex</b> (water-based)	toxic	save for collection; place in trash only if hardened <small>Check with local officials.</small>
<b>Paint — oil</b> (solvent-based)	flammable, toxic	save for collection; place in trash only if hardened and has no heavy metals. <small>Check with local officials.</small>
<b>Paint thinner</b>	flammable, toxic	reuse, or save for collection
<b>Stain and varnish</b>	flammable, toxic	save for collection
<b>Wood preservative</b>	flammable, toxic	save for collection

## CLEANERS

<b>Product</b>	<b>Properties</b>	<b>Disposal method</b>
<b>Ammonia-based</b>	corrosive, toxic	flush down drain
<b>Bleach-based</b>	corrosive, toxic	flush down drain
<b>Disinfectant</b>	corrosive, toxic	flush down drain or save for collection
<b>Drain cleaner</b>	corrosive, reactive, toxic	flush down drain or save for collection
<b>Floor wax/stripper</b>	flammable, toxic	save for collection
<b>Furniture polish</b>	flammable, toxic	save for collection
<b>Metal cleaner</b>	corrosive, flammable, toxic	save for collection
<b>Oven cleaner</b>	corrosive, toxic	save for collection
<b>Spot remover</b>	corrosive, flammable, toxic	save for collection
<b>Toilet bowl cleaer</b>	corrosive, toxic	flush down drain
<b>Window cleaner</b>	toxic	flush down drain

### PESTICIDES

<b>Product</b>	<b>Properties</b>	<b>Disposal method</b>
<b>Container (empty)</b>	toxic	triple-rinse
<b>Fertilizer (with pesticide)</b>	corrosive, toxic	save for collection
<b>Flea collar and spray</b>	toxic	put in trash if used up, or save for collection
<b>Fungus-control chemicals</b>	toxic	save for collection
<b>Insect-control chemicals</b>	toxic	save for collection
<b>Moth balls</b>	toxic	save for collection
<b>Rat and mouse poison</b>	toxic	save for collection
<b>Weed and brush killers</b>	toxic	save for collection

### PERSONAL CARE PRODUCTS

<b>Product</b>	<b>Properties</b>	<b>Disposal method</b>
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<b>Aftershave and perfumes</b>	flammable, toxic	flush down drain
<b>Hair permanent lotions</b>	toxic	flush down drain
<b>Nail polish</b>	flammable, toxic	save for collection; place in trash only if hardened
<b>Nail polish remover</b>	flammable, toxic	save for collection
<b>Prescription medicines</b>	toxic	flush down drain <b>except</b> chemotherapy drugs and antineoplastic medicines. Return these to dispensing clinic. Save head lice shampoos for a collection day.
<b>Syringes</b>	can transmit diseases or cause puncture wounds	place in trash Store in rigid, puncture-resistant leak-proof container. Seal prior to disposal.

### MISCELLANEOUS

<b>Product</b>	<b>Properties</b>	<b>Disposal method</b>
<b>Aerosol can (empty)</b>	explosive if heated, flammable, toxic	place in trash
<b>Air fresheners</b>	flammable, toxic	save for collection, or place in trash if used up
<b>Ammunition</b>	explosive	Contact law enforcement officials for proper disposal in your area.
<b>Artist and hobby paint</b>	flammable, toxic	save for collection
<b>Batteries, household (alkaline, ni-cad, lithium)</b>	corrosive, reactive, toxic	save for collection; recycle button batteries
<b>Fabric dye</b>	corrosive, toxic	flush down drain if diluted; save for collection if concentrate
<b>Fireworks</b>	explosive	soak in water until saturated, then put in trash
<b>Gas cylinder</b>	explosive, flammable	contact local officials (always store outdoors)
<b>Photography chemicals (B&amp;W)</b>	corrosive, toxic	flush down drain if diluted and mixed; save for collection if unmixed
<b>Swimming pool chemicals</b>	corrosive, explosive, toxic	save for collection (or contact local wastewater treatment plant for disposal)
<b>Smoke detector</b>	radioactive	return to manufacturer

(ionizing)		
<b>Thermometer</b>	toxic	save for collection