

NESC

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Editor's Note:

This column is based on calls received over the National Environmental
Services Center (NESC) technical assistance hotline. If you have further questions concerning household cleaning products, call (800) 624-8301 or (304) 293-4191 and ask to speak with a technical assistant.



What's a safe alternative for household cleaning solutions?

Americans produce 1.6 million tons of household hazardous waste every year (Earth's 911, 2000)? What is household hazardous waste? Well, the U.S. Environmental Protection Agency defines these household products as flammable, combustible, toxic, explosive/reactive, or corrosive. Some of these products you are probably already aware of. For example, it is well known that brake fluid, antifreeze, pool chemicals, and varnishes can be very dangerous if not stored, used, or disposed of properly. But did you know that nail polishes/removers, moth balls, charcoal lighter fluid, and fluorescent lights can also cause significant damage to humans, vegetation, wildlife, and other environmental resources? Problems usually arise when these chemicals leak and/or spill from their containers. If the spill interacts with other chemicals, toxic gases can form or even explode. Another significant problem can occur when these spills take place outside, in driveways or lawns. A simple rain can sweep these chemicals into larger water bodies or groundwater—polluting healthy areas and damaging the ecosystems that depend on them.

Take a look at the **table below** to see how many potentially dangerous products are stored in your home (MPCA, 2002).

It is estimated that the average American home stores up to 100 pounds of household hazardous waste. (Earth's 911) A great way to prevent accidents and make your home safe is to limit the amount of household hazardous waste stored in and around your home. By limiting the storage of these products, you reduce the risk of accidents in your home and the environment around it. The Health Department of Tacoma-Pierce County, Washington, has provided an extensive table (on the facing page) containing alternative cleaning solutions for everyday home maintenance. Some of the solutions may surprise you, as the ingredients can be gathered around the home or purchased for a low cost.

Cleaning Hints

- Wear gloves to protect your hands.
- Use the simplest, mildest cleaner that can do the job.
- Never mix bleach with an ammonia containing product. A poisonous gas will be produced.

Note: NESC does not guarantee the effectiveness of any and all alternative cleaning solutions. Use these and all other solutions with CAUTION. Keep these solutions and all other cleaning supplies out of reach of children.



	Automotive Improvement	Household Items	Lawn and Garden	Home
	Auto batteries	Aerosol products	Bug spray	Concrete cleaner
ı	Brake fluid	Button batteries	Charcoal lighter fluid	Driveway sealer
ı	Carburetor cleaner	Batteries	Fertilizer (w/weed killer)	Furniture stripper
ı	Degreasers	Drain cleaners	Insect killer	Glue (w/solvents)
ı	Fuels	Fluorescent lights	Pool chemicals	Latex paint
	Oil filters	Mothballs	Rodent bait	Oil-based paint
۱	Used antifreeze	Nail polish/remover	Weed killer	Paint remover
ı	Used motor oil	Oven cleaner		Paint thinner
		Polish w/solvents		Roofing tar
١		Spot removers		Stain/varnish
		Thermometers (Hg)		Wood preservatives

Purpose	Less Toxic Alternative		
Aluminum spot remover	2 tablespoons cream of tartar + 1 quart hot water		
Bleach	Borax		
Car battery corrosion	Baking soda + water		
Cleaners; general household	Baking soda		
Coffee cup stain remover	Moist salt		
Copper cleaner	Lemon juice + salt		
Dish detergent: grease cutter	1/2 cup baking soda + usual amount of liquid detergent		
Drain cleaner	Plunger followed by 1/2 cup baking soda + 1/2 cup vinegar + 2 quarts boiling water		
Fertilizer	Compost and vermicompost		
Furniture polish	1 tablespoon lemon oil in 1 pint mineral oil		
Garbage disposal deodorizers	Used Lemons		
Grease removal	Borax on damp cloth		
Hand cleaner: paint/grease	Baby oil		
Ink spot remover	Cold water + 1 tablespoon cream of tartar + 1 tablespoon lemon juice		
Laundry detergent	Basic soap		
Linoleum floor cleaner	1 cup white vinegar + 2 gallons water		
Mildew remover	Equal parts of vinegar and salt		
Oil stain remover	White chalk rubbed into stain before laundering		
Oven cleaner	2 tablespoons liquid soap + 2 teaspoons borax + warm water		
Paint; oil based/stain/spray	Water-based, non-aerosol paints		
Paint brush softener	Hot vinegar		
Perspiration spot remover	Baking soda		
Pet odor remover	Cider vinegar		
Rug/carpet cleaner	Club soda		
Rust removal (clothing)	Lemon juice + salt + sunlight		
Scorch mark removal	Grated onion		
Scouring powder	Baking soda		
Shaving cream	Brush and shaving soap		
Silver polish	1 quart warm water + 1 tablespoon baking soda + piece of aluminum foil + 1 tablespoon salt in glass dish; soak silver, rinse and dry		
Spot remover	Club soda, lemon juice, or salt		
Stainless steel polish	Mineral oil		
Toilet bowl cleaner	Paste of borax + lemon juice		
Tub and tile cleaner	1/4 cup baking soda + 1/2 cup vinegar + warm water		
Water softener	1/4 cup vinegar		
Wine stain removal	Salt		
Window cleaner	2 tablespoons vinegar in 1 quart warm water		
Wood polish	3 parts olive + 1 part white vinegar; almond or olive oil (interior unvarnished wood only)		

Source: National Management Measures Guidance to Control Nonpoint Source Pollution from Urban Areas Tacoma-Pierce County, Washington, Health Department

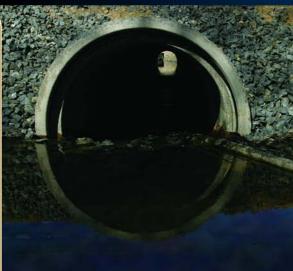
References

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Tacoma-Pierce County, Washington, Health Less Toxic Alternatives for Cleaning.

Department. Household Hazardous Wastes: www.tpchd.org/sourceprotection/alter. html. Accessed June 21, 2005.



Capacity, Management, **Operations & Maintenance** (CMOM) Guide Available

The Compliance Assistance and Sector Programs Division, Office of Compliance, U.S. Environmental Protection Agency (EPA), has prepared a Capacity, Management, Operations & Maintenance (CMOM) Guide to encourage the EPA regions and states, as well as others, to use a CMOM approach for implementing the performance-based strategy for the sanitary sewer overflow (SSO) national priority.

This guidance is a compliance-monitoring tool for use by federal and state inspectors and a compliance-assistance tool for use by the regulating community: owners or operators of sewer systems collecting domestic sewage. The guidance is also for use by consultants or third-party evaluators or complianceassistance providers.

The guidance identifies, for the regulated community, some of the criteria used by EPA inspectors to evaluate a collection system's management, operation, and maintenance program activities. Owners/operators can review their own systems against the checklist (Chapter 3) to reduce the occurrence of sewer overflows and improve or maintain compliance. Additionally, having key board members/policymakers read this guidance also will allow them to better understand the benefits of investing in a good CMOM program.

The CMOM quidance is available at www.epa.gov/npdes/sso (click on the "fact sheets" line under "Other Information") and www.epa.gov/clearinghouse. A limited number of paper copies is available through the National Service Center for Environmental Publications (NSCEP) at (800) 490-9198 and the Office of Water Resource Center (202) 566-1729. For further information, contact Sharie Centilla at (202) 564-0697.