The Problem

Powerful antimicrobial chemicals (also known as disinfectants) are increasingly found in household cleaners, from laundry detergent to kitchen cleaners to handy wipes. Yet research has shown that some of the most common antimicrobial chemicals used in cleaners could have serious health consequences. Exposure to these chemicals has been linked to potential health impacts from simple irritation of the skin, eyes, and respiratory system to hormone imbalance, immune system impacts, asthma, and potential reduced fertility. The overuse of disinfectant chemicals also contributes to the growing problem of antibiotic-resistant bacteria, more commonly known as “superbugs.”

The truth is that in most households, the need for routine disinfection is rare. Scientists agree that soap and water are effective for most routine cleaning jobs, and research has demonstrated that safer alternatives, such as vinegar and borax, have antibacterial properties that may be used in place of harsh chemicals. Also, other steps can be taken to prevent the need to disinfect in the first place.

Recommendations to Reduce Your Use of and Exposure to Disinfectants

Antimicrobial chemicals are effective at killing germs, but because of their associated health risks, they should be used with extreme care. The best advice is to disinfect sparingly using your best judgment.

Go Back to Basics with Soap and Water

The surfactants in soap help lift the dirt off surfaces, while a little scrubbing and good rinsing will carry the dirt (and any microbes) away. Using cleaners containing antimicrobial chemicals would actually kill the germs in your house, and although this sounds like a better idea, studies show that there is no demonstrated health advantage to using these types of cleaners.

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Use Green Cleaning Products

- Vinegar is often used as a glass and window cleaner due to its ability to produce a “streak-free” shine. Also known as acetic acid, it is highly acidic, making it effective at destroying bacteria.

- Borax is a naturally occurring powdered substance, and is often used as a water softener and makes an excellent freshener when added to laundry. The chemical properties of borax make it a good cleaner as well as a bleaching agent.

- Essential Oils are concentrated liquids distilled from plants. Several essential oils such as thyme oil, rosemary oil, clove oil, eucalyptus oil, oregano oil, and others have been shown to have natural antibacterial properties.

Wash Your Hands!
Regular hand washing has been shown to be the very best way to prevent the spread of contagious illnesses like colds and viruses. The US Centers for Disease Control and Prevention recommends washing your hands vigorously with soap and water for 20 seconds at a time.

Practice Good Food Safety

- Clean: Wash your hands before handling food, and rinse fruits and vegetables under running water.

- Separate: Keep raw meats, poultry, seafood, and eggs separate from ready-to-eat foods to avoid cross-contamination.

- Cook: Cook foods to a high enough internal temperature to kill harmful bacteria that may be present in raw meats or eggs.

- Chill: Refrigerate or freeze foods as soon as you get them home from the store. Make sure not to leave cooked foods out for more than two hours.

Microwave and Launder Away Bacteria
Two simple solutions to prevent bacteria growth on sponges and cloths are microwaving sponges for one minute and regularly laundering washcloths.

Take Action: Raise Your Voice for Healthy Products!

Call on Congress to strengthen our laws! We shouldn’t have to worry that the products we use contain toxic chemicals. That’s why WVE is working with partner organizations to pass laws that protect our health and the health of our families. Go to www.womenandenvironment.org/disinfectants to learn more.

Sign WVE’s Petition for Safe Cleaners. Let the top five cleaning product makers (Clorox Company, Procter & Gamble, Reckitt-Benckiser, SC Johnson & Son, and Sunshine Makers, Inc.) know that you want toxic chemicals out of their products. Visit www.womenandenvironment.org/actions to join the thousands of women and men who have raised their voices for change.

Make your own non-toxic cleaners. Check out WVE’s Green Cleaning Party Kit for six non-toxic recipes using ingredients like vinegar, baking soda, and olive oil. You can download a kit or purchase one at www.womenandenvironment.org/merchandise.

Spread the word. Make sure that your friends and family know about the potential health hazards of overusing disinfectants. If you employ a cleaning company or an independent house cleaner, ask them to reduce their use of antimicrobial products in favor of everyday cleaning products.


For more detailed information on chemicals in antimicrobial products, download our full report, Disinfectant Overkill, at www.womenandenvironment.org/disinfectants.