

# EWG CLEANERS DATABASE HALL OF SHAME

You'd expect to see these warnings on a barrel of hazardous waste. In fact, they're in the fine print of labels of everyday household cleaners or on their websites and obscure technical disclosures.

*"Will burn skin and eyes."*

*"Chemical known to the state of California to cause cancer."*

*"Will penetrate skin and attack underlying tissues and bone."*

*"Suspected of damaging the unborn child."*

In a ground-breaking initiative to uncover the truth about toxic chemicals in common household products, the Environmental Working Group has unearthed compelling evidence that hundreds of cleaners, even some of those hyped as "green" or "natural," can inflict serious harm on unwary users. Many present severe risks to children who may ingest or spill them or breathe their fumes.

The first edition of the **EWG Cleaners Database** is due for release in fall 2012. Already, our research has turned up products loaded with extremely toxic compounds banned in some countries. Some of their ingredients are known to cause cancer, blindness, asthma and other serious conditions. Others are greenwashed, meaning that they are not, as their ad hype claims, environmentally benign. Still more hide the facts about their formulations behind vague terms like "fragrance."

To empower consumers, the EWG Cleaners **Hall of Shame**, published in anticipation of the full database, highlights the worst of the worst – so far.

Stay tuned – we'll update the Hall of Shame as our analysis progresses, because American consumers need this information now. Though many Americans assume government bodies oversee the safety of the multi-billion-dollar household cleaning products industry, it is largely unregulated. The EWG Cleaners Database aims to fill this information gap in order to give people straight facts developed by independent scientists.

## Greenwashing

Cleaners labeled “safe,” “non-toxic” and “green” can contain hazardous ingredients. There should be a law against bogus claims, but there isn’t. Some companies are willing to bend the truth – because they can.

### Worst offenders:



**Simple Green Concentrated All-Purpose Cleaner.** It’s labeled “non-toxic” and “biodegradable.” It contains:

- 2-butoxyethanol, a solvent absorbed through the skin that damages red blood cells and irritates eyes;
- A secret blend of alcohol ethoxylate surfactants. Some members of this chemical family are banned in the European Union.

Worse, the company website instructs the user to dilute the product significantly for even the heaviest cleaning tasks. Yet it comes in a spray bottle that implies it should be sprayed full-strength. Such use would result in higher exposures.



**Whink Rust Stain Remover.** Advertised for cleaning white porcelain sinks, toilet bowls and colorfast fabrics and carpet, the fine print warns:

- “May be fatal or cause permanent damage.”
- “Causes severe burns which may not be immediately painful or visible.”
- On technical information for workers, “will penetrate skin and attack underlying tissues and bone.”

Product literature advises workers to “use only with adequate ventilation” and to wear gloves, safety goggles and a face mask. Consumers are advised only to wear rubber gloves.



**Citra-Solv Cleaner & Degreaser.** These concentrated liquids and ready-to-use sprays contain d-limonene and orange oils from citrus peels. According to the company’s worker safety disclosure, Citra-Solv concentrate is 85 to 95 percent d-limonene. That the oils are derived from citrus implies safety, but sprayed into the air, they can react with trace levels of ozone air pollution to form ultra-fine particles that penetrate deep into the lungs and formaldehyde, which the U.S. government classifies as a known human carcinogen. The California Air Resources Board advises people to limit the use of citrus- or pine oil-based cleaners on smoggy days to avoid exposure to particulates and formaldehyde.

**EWG Green Tip:** Read labels carefully and pay special attention to warnings. Don’t buy any products labeled “poison,” “danger” or “fatal” if swallowed or inhaled.

## Banned Abroad



**Spic and Span Multi-Surface and Floor Cleaner.** This product contains nonylphenol ethoxylate, which the state of California has banned in cleaning products manufactured after 2012. Products containing this chemical cannot be sold in the European Union. It breaks down to nonylphenol, which can disrupt the hormone system, is toxic to aquatic life and persists in the environment.



**Scrubbing Bubbles - Antibacterial Bathroom Cleaner & Extend-A-Clean Mega Shower Foamer.** These products contain up to 10 percent DEGBE, also called butoxydiglycol, a solvent banned in the European Union at concentrations above 3 percent in aerosol cleaners. It can irritate and inflame the lungs.



**Mop & Glo Multi-Surface Floor Cleaner.** It contains DEGME, also called methoxydiglycol, at up to 15 times the concentration allowed in cleaners sold in the European Union. The United Nations Economic Commission for Europe says DEGME is “suspected of damaging the unborn child.”



**DampRid Mildew Stain Remover Plus Blocker.** It may contain up to 10 percent of a hazardous solvent called 2-butoxyethanol. Canada caps this chemical’s use in non-aerosol cleaners at 6 percent. It also contains nonylphenol ethoxylate, prohibited in cleaners sold in the E.U.



**EASY-OFF Fume Free Oven Cleaner.** This spray contains 5 to 10 percent DEGBE. The E.U. bars concentrations of DEGBE greater than 3 percent because it can harm the lungs.

**EWG Green Tip:** Check your brands’ labels and websites for ingredient lists. Avoid products containing nonylphenol ethoxylates (look for “nonylphen” or “nonoxynol” within the ingredient name) and 2-butoxyethanol, butoxydiglycol, ethylene- or diethylene glycol monobutyl ether, diethylene glycol monomethyl ether or methoxydiglycol.

## Drain cleaners that can burn and blind

Childproof packaging is just one clue that conventional drain cleaners are extremely dangerous.



**Drano Professional Strength Kitchen Crystals Clog Remover.** The label says this product can severely burn eyes and skin and cause blindness or even death. Drano Kitchen Crystals may remain in the drain after use, creating an extreme hazard. Using a plunger could cause caustic splashback. Pouring any other product down the drain might trigger a dangerous chemical reaction. The label warns purchasers to “keep water out of can at all times to prevent contents from violently erupting or boiling out.” Yet unsuspecting consumers have been known to store it under the sink.

**EWG Green Tip:** Use a drain snake and plunger, available in hardware stores. Store drain cleaner in high secure cabinets out of reach of children and away from water.

## Oven cleaners that emit toxic fumes

Conventional oven cleaners can contain substantial amounts of sodium or potassium hydroxide, meant to dissolve crusty, baked-on gunk. These chemicals can also burn skin, lungs and eyes.



**Walmart Great Value Heavy Duty Oven Cleaner.** The label warns: “Will burn skin and eyes. Avoid contact with skin, eyes, mucous membranes and clothing. Harmful if swallowed. Avoid inhaling spray mist. Wear long rubber gloves while using...”



**CVS/pharmacy Fume-Free Oven Cleaner.** Though claiming to be “fume-free,” the label warns: “Vapor harmful... open windows and doors or use other means to ensure fresh air entry during application and drying.” The label says the product contains an unidentified substance “known to the state of California to cause cancer.”



**EASY-OFF Heavy Duty Oven Cleaner Aerosol Spray.** The label warns: “Warning: ...DANGER: CORROSIVE...WILL BURN EYES AND SKIN. HARMFUL IF SWALLOWED. Avoid contact with eyes, skin, mucous membranes and clothing. DO NOT ingest. Use only with adequate ventilation. Avoid breathing spray mist. Wear long rubber gloves when using...”

**EWG Green Tip:** Sprinkle baking soda liberally to cover the bottom of the oven. Spray with water. Wait 8 hours, scrape and wipe clean.

## Mystery mixtures

Ingredient labels are mandatory for food, cosmetics and drugs – but not for cleaners. Bowing to pressure from customers and to the threat of federal regulation, most companies list some ingredients on labels and websites or in worker safety information. But a few companies disclose nothing. Others may list one or a few ingredients or use vague terms like “surfactant” or “solvent.”



**Target's Up & Up.** This brand's Toilet Bowl Cleaner and Glass and Surface Wipes do not list any ingredients on the product packaging. Other products sold under the Up & Up label list only one or two ingredients or use vague terms.



**LA's Totally Awesome.** This brand divulges few ingredients. It lists just one ingredient for its Orange All Purpose Degreaser & Spot Remover, the hazardous solvent 2-butoxyethanol.



**Walmart's Great Value.** This store brand does not list ingredients in its Heavy Duty Oven Cleaner and lemon-scented Furniture Polish, despite the company's commitment “to sell products that sustain people and the environment.” Other items sold under the Great Value brand list few ingredients or use general terms for them.

**EWG Green Tip:** Look for products listing most or all ingredients on the label or website. No information could mean something to hide.

## Fatal if inhaled

Some popular cleaning products contain addictive inhalants. Inhalants generally have been abused by 1 in 5 American teens and are considered “gateway drugs” that lead to drug and alcohol abuse ([www.inhalant.org](http://www.inhalant.org)). They are potentially fatal in concentrated form. A few of the many inhalant products EWG found:



**Glade** air freshener sprays warn that “intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.”

**Air Wick** automatic air fresheners and **Old English** furniture polish carry the same warning.

**Spot Shot** carpet stain remover warns that “inhalation abuse of aerosol products may be harmful or fatal.”

**EWG's Green Tip:** Talk to your kids about the risks of inhalants ([www.inhalant.org](http://www.inhalant.org)). Read warning labels and keep cleaners that are potentially fatal if inhaled out of your home.

## Fatal if swallowed

When is a clean house worth this risk?



### **Lysol Disinfectant Power Toilet Bowl Cleaner with Lime & Rust Remover.**

This corrosive acid concoction kills bacteria but is also labeled “harmful or fatal if swallowed.” The cleaner’s child-proof cap is an important safety feature. The label warns not to squeeze the container when opening and to wear safety goggles. A bit of this acid in the eye can cause “irreversible damage.”



**2000 Flushes and X-14 toilet bowl cleaners.** These chlorine-laden discs don’t harm plumbing or septic systems, but according to the label they “may be fatal if swallowed.” The boxes warn customers to wear rubber gloves when handling, hold the disc away from the face and avoid inhaling the fumes. A pet could confuse a disc with a plastic chew toy.

**EWG Green Tip:** Don’t take a chance on products that are fatal if swallowed. Pets and children are most at risk, so read the warning labels. Stock your cabinet with safer choices, but keep them, too, out of children’s reach.

## High-hazard ingredients



**Hagerty Liquid Jewel Clean.** It contains perchloroethylene, a toxic solvent classified as “probably carcinogenic to humans” by the International Agency for Research on Cancer.



**Tarn-X Tarnish Remover.** This “Wipe & Rinse” product contains up to 7 percent thiourea, a chemical classified as a carcinogen by the state of California. The company’s technical information for workers says “prolonged or repeated exposure may cause reproductive and fetal effects.”



### **Ajax, Dynamo and Fab Ultra liquid laundry detergents (Phoenix Brands).**

These contain formaldehyde, also known as formalin, classified as a known human carcinogen by the U.S. government and World Health Organization. Formaldehyde can cause asthma and allergies. The company divulges the presence of formaldehyde in the product only on technical disclosures for workers.

**EWG Green Tip:** Try safer do-it-yourself options first, before heavier duty options.

## Combatting static with toxic chemicals

Dryer sheets and anti-static sprays may free clinging fabrics and stop static sparks, but they usually do it with quaternary ammonium compounds that can irritate lungs and cause asthma as well as allergic contact dermatitis.



**Static Guard** contains the chemical DTDMAC, or ditallow dimethyl ammonium chloride, which is so persistent in the environment that it can’t be used as a cleaning ingredient in the European Union.



**Final Touch Ultra Liquid Fabric Softener.** This brand contains quaternium-18 (dihydrogenated tallow dimethyl ammonium chloride or DHTDMAC), which also cannot be used in cleaning products in the European Union for its persistence in the environment.

**EWG Green Tip:** Use a humidifier if your indoor air is dry – more water in the air means less static electricity. Add vinegar to the rinse cycle to prevent static cling or run a damp cloth over clothing.

## Spray cleaners with asthma-causing ingredients

Even though 1 in 10 U.S. children suffers from asthma, some companies make spray cleaners that fill the air with asthmagens, meaning ingredients that cause asthma.



**Clorox, Fantastik, Febreze, Formula 409, Easy-Off, Lysol, Mr. Clean and Spic and Span.** Many of the spray cleaners sold under these brand names are laced with quaternary ammonium compounds or ethanolamine, ingredients classified as asthmagens by the Association of Occupational and Environmental Clinics, a professional association of clinics and health experts. These chemicals can trigger asthma attacks and can cause new cases of the disease in people who are asthma-free. Ingredients classified as asthmagens don't belong in spray products.

**EWG's Green Tip:** Skip spray products that contain ethanolamines (MEA, DEA and TEA) and "quats." Beware of ADBAC, benzalkonium chloride or ingredients with "-monium chloride" in the name from the label or the company's website. Do not use disinfecting sprays, since most of them contain asthmagens.

## 100+ hidden chemicals

EWG's 2009 state-of-the-art air pollution tests of 21 common school cleaning products turned up a wide range of air contaminants linked to asthma, cancer, reproductive toxicity, hormone disruption and neurotoxicity. Some of the worst offenders are in products also commonly used in the home.



**Comet Disinfectant Cleanser Powder** emitted 146 different chemicals, including some thought to cause cancer, asthma and reproductive disorders. The most toxic chemicals detected – formaldehyde, benzene, chloroform and toluene – are not listed on the label. Little is known about the health risks of most of the contaminants found.



**Febreze Air Effects** released 89 air contaminants.

**EWG Green Tip:** Open windows or run a fan – or both – to clear the air during and after cleaning.

## Undisclosed chemicals in the air

Air fresheners do not clean or purify the air. They merely cover up odors by releasing undisclosed mixtures of fragrance chemicals. Common fragrance components include chemicals that spur allergies, trigger asthma attacks or impair reproduction.



**Lysol Neutra Air Freshmatic** boasts that “your home will always smell fresh and clean” but cautions that the device should be placed “in well-ventilated rooms away from sleeping areas.” Among the label’s warnings: may be harmful if directly inhaled, may cause allergic reaction in some individuals, DO NOT spray towards face or body, DO NOT get in eyes, avoid contact with skin, DO NOT spray directly onto surfaces.



**Air Wick Freshmatic Compact** cautions to “use in well-ventilated rooms away from sleeping areas.”



**Febreze and Glade automatic air fresheners** warn, “Do not use in small confined pet areas without adequate ventilation.”

**EWG Green Tip:** If a room has an odor problem, track down the source and eliminate it instead of covering it up with fragrances. A bowl of baking soda in the bathroom can absorb odors.

## Dead zone detergents

Most detergents claim they are “phosphate free.” And that’s a good thing, because phosphate compounds, formerly a mainstay for cleaning dishes and clothing, wash into waterways and spur rampant algae growth that leads to massive “Dead Zones” in the Gulf of Mexico, Chesapeake Bay and other water bodies. Twenty-five states and the District of Columbia prohibit phosphates in household dishwashing and laundry detergents. But some companies exploit a legal loophole by selling phosphate-laden additives that are as harmful as banned detergents.



**FINISH Glass Magic Hardwater Performance Booster** contains up to 21 percent phosphate by weight, according to the label.

**EWG Green Tip:** Skip phosphate additives for dishwashers and clothes washers. Don’t use cleaners with ingredients that damage the environment.