

Clean, Green & Healthy

Identifying Potential Environmental Health Toxins at Home



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Rochester Institute of Technology (RIT)

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Disclaimer

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Agenda

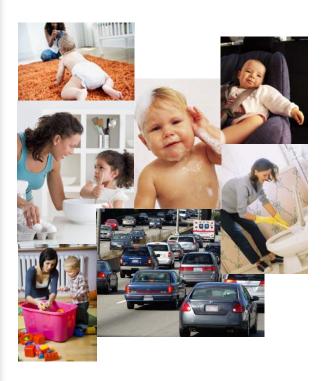
- Why should we be concerned about environmental health?
- Product safety regulations
- Chemicals that have been found in products
 - Fragrance
 - Cleaners
 - Personal care products
 - Foam products







Why should we be concerned about environmental health?



We are exposed to hundreds of chemicals every day – children are exposed to some chemicals more than adults and exposed to chemicals that adults may not be exposed to



Chemicals enter our body –breathe them in, they pass through our skin, or we eat them – and many are stored in body fat



Children are more vulnerable & at higher risk of suffering effects than adults







Product Safety Regulations

- Companies do not have to disclose to consumers what is in toys and other children's & consumer products
- Consumer Product Safety
 Commission
 - Protects the public from unreasonable risk from consumer products
 - Protects from products that pose fire, electrical, chemical, or mechanical hazard or can harm children
 - Operates voluntary recall program
- CPSC can't test products before sale to ensure they are safe









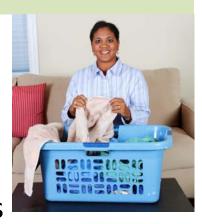


Fragrance

What is the concern?

- We are exposed to a lot of scented products – personal care, cleaners, air fresheners, laundry soap, etc.
- Usually made up of a blend of chemicals
- May be from natural or synthetic sources

Phthalates	Musks
Solvents/carriers for chemicals that create the scent Also in nail polish & moisturizers	Man-made chemicals that replicate musk scents originally obtained from deer & ox
Look for <i>fragrance, -phthalate, parfum</i> on the product label	Look for <i>fragrance, synthetic musk, musk</i> on the product label
Linked to diabetes and asthma, potential risks to reproductive system & thyroid	Potential hormone disruptors that may break down the body's defenses against other chemicals







EPA http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/phthalates.html ;Campaign for Safe Cosmetics, http://safecosmetics.org/article.php?id=643







Fragrance

How are we exposed?

- Breathe it in perfume, cleaners, air freshener, scented candles, other airborne products
- It is absorbed through the skin shampoo, soap, lotion, other personal care products, laundry soap on clothes & bed sheets

Can hide many chemicals as the composition does not have to be disclosed on the label

During use,
fragrance can
become airborne
and is easily
inhaled

Nearly 38% of
Americans report
adverse effects when
exposed to some
kind of fragranced
product^a







Fragrance

What you can do

- Avoid products with "-phthalate", "musk", "parfum", or "fragrance" as an ingredient
- **X** Avoid air fresheners and scented candles
- ✓ Choose fragrance free products labeled "free of perfumes and dyes," "fragrance free", or "unscented"
- ✓ Use **homemade unscented** cleaners & personal care products
- ✓ Choose naturally scented products















Cleaners

What is the concern?

- Many cleaning product ingredients are linked to health effects
 - Many cause skin, nose, throat, and eye irritation and/or are suspected endocrine disruptors
- Cleaning products are released to the environment through evaporation and rinsing down the drain
 - Many chemicals are not removed from water before it is discharged to the environment
 - Phosphorus can contribute to nutrient-loading in water bodies, affecting water quality
 - May have other negative effects on plants and animals living in water
 - May accumulate in the food chain











Cleaners Used Around the House



Toilet Bowl Cleaners, Mildew Removers, Air Fresheners, Drain Openers



Oven Cleaners, Dishwashing Soap

Glass & Surface Cleaners Disinfectants Floor & Carpet Cleaners



Furniture Polish, Laundry Detergents



Stain Removers







Cleaners

What you can do

- ✓ Choose cleaners without harmful chemicals
 - X Avoid cleaners labeled "danger" or "poison"
 - X Avoid air fresheners & choose "fragrance-free"
 - ✓ Choose third-party certified cleaning products
- Choose cleaners with environmentally preferable packaging
- ✓ Make your own cleaning products
- ✓ Use & store cleaners safely
 - ✓ Use in well ventilated areas away from pregnant women, infants, children, seniors, people with asthma, and others who may be sensitive
 - ✓ Follow the manufacturer's use, storage, and disposal instructions carefully
- ✓ Use online tools to help you choose safer products









example third party certifications

Go





Household Products Database

Health & Safety Information on Household Products

National Institutes of Health National Library of Medicine Specialized Information Services NLM



Quick Search

Product, Manufacturer etc...

Advanced Search >

Browse by Category

Auto Products Inside the Home Pesticides Landscape/Yard Personal Care

Home Maintenance Arts & Crafts

Pet Care Home Office

Browse A-Z **Product Names** Types of Products Manufacturers

Contact Us More Resources

Ingredients

Support About the Database FAQ Product Recalls Help Glossarv

Home

Products

Manufacturers

Ingredients

Health Effects

What's under your kitchen sink, in your garage, in your bathroom, and on the shelves in your laundry room? Learn more about what's in these products, about potential health effects, and about safety and handling.



Auto Products

Brake Fluid, De-icer, Lubricant, Sealant, and more...



Inside the Home

Air Freshener, Bleach, Cleaners, Toilet Bowl Cleaner, and more...



Pesticides

Animal Repellant, Fungicide, Herbicide, Insecticide, and more...



_andscape/Yard

Fertilizer, Lawn Care, Swimming Pool Products, and more...



Personal Care

Antiperspirant, Hair Spray, Makeup, Shampoo, Soap and more...



Home Maintenance

Caulk, Grout, Insulation, Paint, Putty, Stain, and more...



Arts & Crafts

Adhesive, Glaze, Glue, Primer, Varnish, and more...



Pet Care



Home Office

For advice if someone is poisone

Home | Products | Manufacture

Household Products Database

http://householdproducts.nlm.nih.gov/

Search for cleaning products by name

 Info available: Product info, manufacturer, health effects, handling/disposal, ingredients









Translate technical terms and ad hype





EWG looked beyond labels to rate products





household needs

Products:

Air Fresheners (2//)

All Purpose (416)

Bathroom (21/)



EWG's Guide to Healthy Cleani **Update Center**

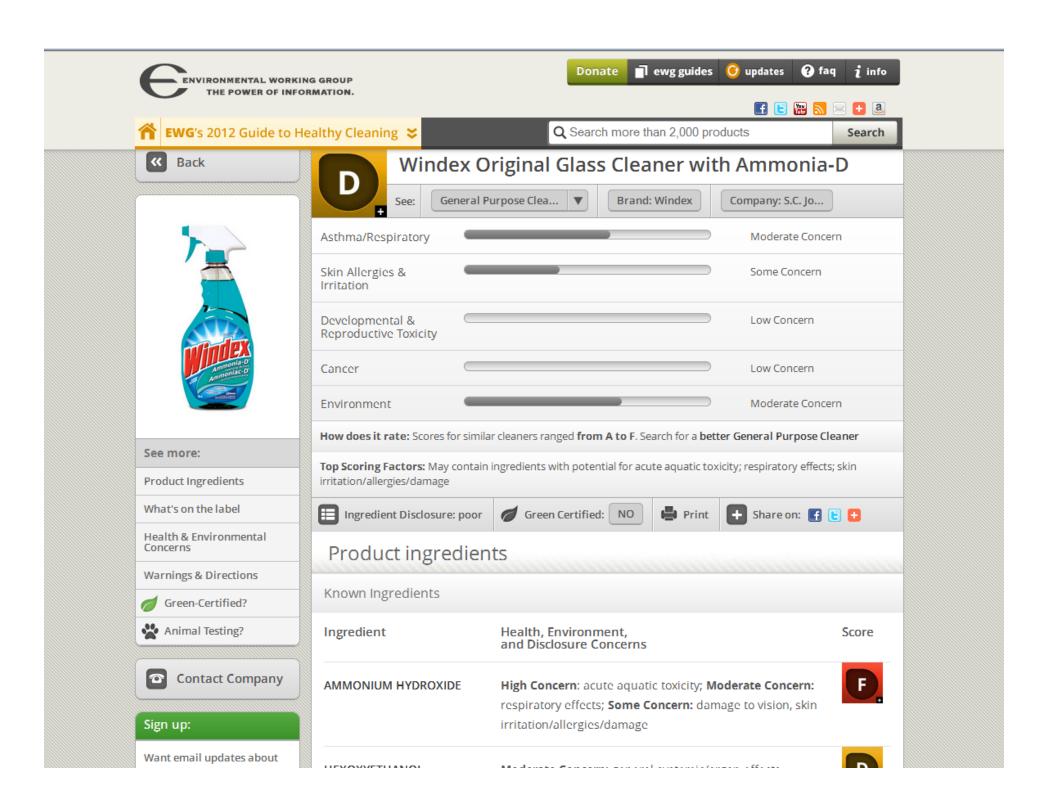
Sun & Earth Update

Date posted: 2013-04-03

EWG is updating the Guide to Healthy Cleaning information from Sun & Earth.

Guide to Healthy Cleaning

http://www.ewg.org/guides/cleaners Search for cleaning products by name Search for cleaning product types Search for companies Search for ingredients









Personal Care Products

Use in the US

- On average, women use 12 products containing 168 ingredients every day
- Men use 6 products with 85 ingredients
- Children are exposed to an average of 61 ingredients daily







EWG (Environmental Working Group). 2004. Exposures Add Up – Survey Results. http://www.ewg.org/skindeep/research/exposures.php. EWG (Environmental Working Group). 2007. Safety Guide to Children's Personal Care Products. http://www.ewg.org/skindeep/special/parentsguide/summary.php.

What's in Your Products?

SHAMPOO .

Avg number of chemicals: 15

Possible side effects: irritation, possible eye damage

HAIRSPRAY'

Avg number of chemicals: 11

Possible side effects: allergies, irritation to eyes,

nose, and throat; hormone disruption

PERFUME

Avg number of chemicals: 250

Possible side effects: mouth, throat, and eye irritation; nausea;

linked to kidney damage

FAKE TAN

Avg number of chemicals: 22

Possible side effects: rashes, irritation,

hormone disruption

BODY LOTION

Avg number of chemicals: 32 Possible side effects: rashes, irritation, hormonal disruption

NAIL VARNISH

Avg number of chemicals: 31

Possible side effects: linked to fertility issues

and problems in developing babies

http://www.dailymail.co.uk/femail/beauty/article-1229275/Revealed--515-chemicals-women-bodies-day.html

EYESHADOW

Avg number of chemicals: 26 Possible side effects: linked to cancer, infertility; hormonal disruptions and damage to the body's organs

BLUSH

Avg number of chemicals: 16
Possible side effects: rashes,
irritation, hormonal
disruption

FOUNDATION

Avg number of chemicals: 24
Possible side effects: allergies,
disrupts immune system, links
to cancer

LIPSTICK

Avg number of chemicals: 33
Possible side effects: allergies,
links to cancer

DEODORANT

Avg number of chemicals: 15
Possible side effects: eye,
skin, and lung irritation;
headache; dizziness;
respiratory problems







Ingredients in Children's Personal Care Products

2007 survey of 3,300 parents to identify the personal care products their children use



The survey found

Infants are exposed to **45 chemicals every day** & 40% have not been found safe for kids

82% are exposed to 1+ ingredients linked to **brain and nervous system damage**

69% are exposed to 1+ endocrine disruptor

4% are exposed to 1+ ingredients linked to cancer

41% of products warn "keep out of reach of children"







Case Study: J&J Baby Shampoo

- March 2009: Compact for Safe Cosmetics reports that Johnson's baby shampoo contains 2 cancer causing chemicals that aren't listed on the label
- October 2011: J&J to phase out the carcinogenic preservatives from baby products
- January 2014: cancer causing preservatives replaced, will start seeing the product on store shelves in first half of 2014











Revising a Formula for Baby Shampoo

Responding to pressure from consumers' groups, Johnson & Johnson revised the ingredients in its baby shampoo to remove a formaldehyde-releasing preservative called quaternium-15.



Johnson's No More Tears Baby Shampoo

OLD FORMULATION

Ingredients: Water, Cocamidopropyl Betaine, PEG-80 Sorbitan Laurate, Sodium Trideceth Sulfate, PEG-150 Distearate, Fragrance, Tetrasodium EDTA, Polyguaternium-10, Quaternium-15, Sodium Hydroxide, Citric Acid, Yellow 10, Orange 4.

REMOVED:

Quaternium-15 a formaldehyde-releasing preservative



NEW FORMULATION

Ingredients: Water, PEG-80 Sorbitan Laurate, Cocamidopropyl Betaine, Sodium Trideceth Sulfate, PEG-150 Distearate, Phenoxyethanol, Glycerin, Citric Acid, Fragrance, Sodium Benzoate, Tetrasodium EDTA, Polyquaternium-10, Ethylhexylglycerin, Sodium Hydroxide, Potassium Acrylates Copolymer, Yellow 6, Yellow 10.

ADDED:

Potassium Acrylates Copolymer

helps maintain proper shampoo thickness

Phenoxyethanol, Sodium Benzoate and Ethylhexylglycerin

helps with components of the new moisturization preservative system

Graphic source: http://www.nytimes.com/2014/01/18/business/johnson-johnson-takes-first-step-in-removal-of-questionable-chemicals-from-products.html

Glycerin





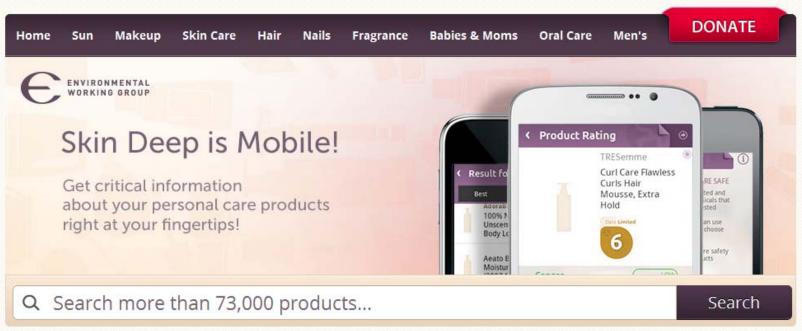


Personal Care Products

What you can do

- Eliminate unnecessary products
- Prioritize high exposure, frequently used products for replacement
- Choose organic products
- Buy from companies you trust
- Make your own products
- Choose products without harsh chemicals
- Consider if the ingredient is necessary ie. Does hand soap have to be antimicrobial? Does face soap have to be pH balanced? Does the scent matter?
- Use tools like SkinDeep to help you choose safer products





Smarter Choices, Healthier Living

Coming This Spring: EWG's 2014 Sunscreen Guide

Companies: To have your sunscreen products included in this year's a skindeep@ewq.org for submission instructions.

The deadline for submitting your formulations is March 21.

EWG's Healthy Living Corner



Quick Tips for Safer Cosmetics



EWG's Guide to Healthy Cleaning

SkinDeep Cosmetics Database

http://www.ewg.org/skindeep

Search for personal care product types

Search for personal care product types

Search for companies

Search for ingredients

Tips & ingredient facts



Featured R



Why Skin Deep®?

4 Myths on cosmetic safety

User's guide to Skin



Data available: Limited

Product Summary

Ingredient Concerns

Animal Testing?

Label Information

Where to Purchase

Discuss This Product

Data last updated: July 2013

Get The Guide!

Want a free Cosmetics Guide? Donate \$5 to EWG today!

Donate Now!

Sign Up!

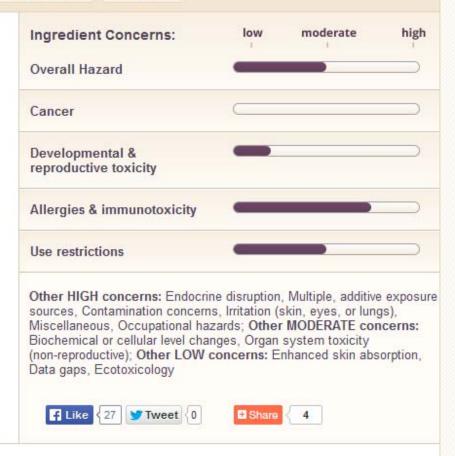
Stay informed by signing up to receive email tips, action alerts and more from EWG.

E-mail Address

Johnson's Baby Bedtime Bubble Bath & Wash

Johnson & Johnson Johnson & Johnson baby soap See all:





Ingredient Concerns

Ingredient Concerns

PROPYLPARABEN

Developmental/reproductive toxicity, Ecotoxicology, Endocrine disruption, Allergies/immunotoxicity, Miscellaneous Use restrictions



Score

Sign Up!

Stay informed by signing up to receive email tips, action alerts and more from EWG.

E-mail Address

Zip Code

Go

Ingredient Concerns

Ingredient	Concerns	Score
PROPYLPARABEN	Developmental/reproductive toxicity, Ecotoxicology, Endocrine disruption, Allergies/immunotoxicity, Miscellaneous, Use restrictions	10 Data: Limited
<u>FRAGRANCE</u>	Ecotoxicology, Allergies/immunotoxicity, Irritation (skin, eyes, or lungs), Miscellaneous, Organ system toxicity (non-reproductive)	8 Data: Fair
PEG-80 SORBITAN LAURATE	Allergies/immunotoxicity, Contamination concerns (ETHYLENE OXIDE, 1.4-DIOXANE, ETHYLENE OXIDE, 1.4-DIOXANE), Organ system toxicity (non-reproductive)	S 5
COCAMIDOPROPYL BETAINE	Ecotoxicology, Allergies/immunotoxicity, Contamination concerns (COCAMIDOPROPYL DIMETHYLAMINE, 3-DIMETHYLAMINOPROPYLAMINE, NITROSAMINES-in the presence of nitrosating agents), Use restrictions	A. Data: Fair
<u>METHYLPARABEN</u>	Biochemical or cellular level changes, Endocrine disruption, Allergies/immunotoxicity, Use restrictions	Data: Limited
<u>PHENOXYETHANOL</u>	Allergies/immunotoxicity, Irritation (skin, eyes, or lungs), Organ system toxicity (non-reproductive), Occupational hazards, Use restrictions	S 4. Data: Limited









EWG's Guide to Sunscreens http://www.ewg.org/2013sunscreen/

- Rates the safety and efficacy of 1,800 SPF products
- Products with high ratings provide broad spectrum, long lasting protection, with ingredients that pose low human health concerns
- Anticipate 2014 released mid-May

Pick the best

See All Products

Beach & Sports Sunscreens Moisturizers with SPF

Lip Balms with SPF Make Up with SPF

Coming This Spring: EWG's 2014 Sunscreen Guide

Companies: To have your sunscreen products included in this year's guide, email skindeep@ewg.org for submission instructions. The deadline for submitting your formulations is March 21.







Foam Products

What is the concern?

- Chemical flame retardants are added to products to make them less likely to catch fire and burn
- These chemicals are released from the product they're in, and we inhale them or ingest dust that contains them
- Children's exposure may be greater than adult's

Bromine is toxic to the liver, brain, reproductive system & may affect thyroid function

High levels of antimony can cause fertility problems and lung cancer in animals

Chlorinated compounds may cause cancer; damage to the liver, kidney, brain, and testes; and reproductive harm







Flame Retardants

What children's products typically contain them?

Foam Products



Car Seats



Sleepwear









Sleepwear & Flame Retardants

Children's sleepwear 9mo-14yr must be flame resistant Two ways to do this:

- 1. Snug fitting cotton or cotton blend
- Flame resistant materials
 - Polyester or other materials that are naturally flame resistant
 - Chemical flame retardant is applied

No or negligible cost difference



Sleepwear Tips

Sleepwear smaller than 9 months is exempt

Look for yellow tag when purchasing snug-fitting sleepwear

Don't buy oversized snug-fitting sleepwear

Not advised for baby to sleep in loose, non flame resistant, clothes

Environmental Health for Young Children & New Parents N Y S P 2 I





Sleepwear Labels



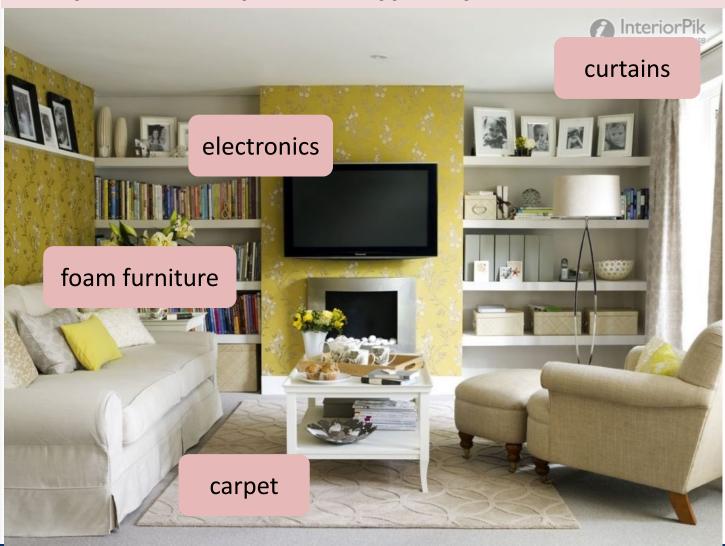






Flame Retardants

Many household products typically contain them









Flame Retardants

Actions you can take

- ✓ Infants and pregnant women should avoid spending significant time on products treated with flame retardants
- √ Choose safer crib mattresses
- X Avoid children chewing on electronic & foam products, including remote controls
- ✓ Vacuum your home regularly with a HEPA filter
- ✓ Dust your home regularly
- ✓ Wash foam products frequently
- ✓ Inspect and replace foam items when they start to rip, tear, or degrade



choose soft pillows (above) instead of hard, shaped pillows (below) as soft pillows are less likely to contain FRs









Safer Product Tips

- ✓ Use safer versions of high exposure and frequently used products
- ✓ Only buy products you really need and will use
- ✓ Consider purchasing gently used toys/products and accept hand me downs – check recall notices to ensure products meet safety standards
- ✓ Replace toys and products when they start to show signs of wear
- ✓ Read product labels before purchasing to understand the materials and how to use, clean, and dispose of the product
- ✓ Find brands you trust and shop from them
- ✓ Donate used/unused toys and products







Upcoming Events

New York State Pollution Prevention Institute's

Green Homes for

Gleaner Lakes

WORKSHOP SERIES





March 4



How Green is Your Clean?

Are the products you use to clean your house affecting your health?
Learn about the household cleaning product choices you have to make your home clean and safe for your family.

Webinar Series

1hr presentation followed by Q&A starting at 2:00 on the dates below

March 18 How Green is Your Clean?

March 26 Safer
Household Products

April 2 Hazardous Waste at Home

April 9 Potential
Hidden Dangers of
Personal Care Products

Contact NYSP2I at greenhomes@rit.edu to register

March 26, 7-9pm







Clean, Green, & Healthy: Choosing Safer Household and Personal Care Products

Learn how to identify and protect yourself and your family from potential health hazards found in products around your home.







Kate Winnebeck, LCACP

Sr. Environmental Health & Safety Specialist

Email: kate.winnebeck@rit.edu

Phone: 585-475-5390









V S P 2 1





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Environmental Health for Young Children & New Parents





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