Science Informing Healthy Choices Working toward a toxic-free future for children

Jane Houlihan

Research Director Healthy Babies Bright Futures October 2017 ...2008 press teleconference held by the Phthalate Esters Panel of the American Chemistry Council, Dean Finney, a consultant with more than forty years experience working with phthalates, including thirty-eight years with Eastman Chemical, a manufacturer of phthalates, asserted without modification that phthalates "do not migrate" or "off gas."²⁸

Elizabeth Grossman "Chasing Molecules" 2009 What if chemicals stayed in the products they are part of, and didn't migrate. Or what if green chemistry was the rule - no hazardous chemicals in use...

NOTHING STAYS PUT, NOT EVEN LINT

Departments 🔻

Collections 🔻

Blogs 🔻

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c&en

The great lint migration

Magazine 🔻

How tiny synthetic fibers released from clothing are ending up in the environment and in our food

News 🔻

By Melody M. Bomgardner

300,000 items in a home

1,000 chemicals in drinking water

10,000 additives allowed in food

"We know that... chemicals... escape into the environment and into people."

> Linda Birnbaum National Institute of Environmental Health Sciences

Life's most transformative times

20 teens, 16 hormone disrupting chemicals

triclosan

isopropylparaben

diethylhexyl phthalate (3 variants)

benzylparaben

diethyl phthalate

ethylparaben

galaxolide

butylparaben

butylbenzyl phthalate

methylparaben

dibutyl phthalate

dimethyl phthalate

musk ketone

propylparaben

Life's most transformative times

Earth's most remote places

Deepest ocean trenches: PCBs, flame retardants

Earth's most remote places

Life's most vital foods



PBDEs in breast milk 75 times higher than in Europe

Life's most vital foods



Earth's most pristine places

Papua New Guinea: High levels of PCBs, Mercury, Lead

Earth's most pristine places

Earth's most protected and vulnerable places

287 chemicals

Earth's most protected and vulnerable places

Industrial pollution is global found in Earth's most remote, pristine, vulnerable, and protected places.

Earth's most political places

SEPA Regulated becomes regulator

EPA Administrator

Office of Chemical Safety and Pollution Prevention - Director

Office of Chemical Safety and Pollution Prevention - Deputy Assistant Administrator





Rollbacks

"52 environmental regulations on their way out under Trump"

Ban of hazardous pesticide

Wetland and tributary protections

Coal ash discharge regulations

Environmental mitigation for federal projects

48 more overturned, in progress, or in dispute

"Children worldwide are being exposed to unrecognized toxic chemicals that are silently eroding intelligence, disrupting behaviors, truncating future achievements and damaging societies "

Grandjean and Landrigan 2014



What now?

WHAT NOW

Power of data

Power of collaboration

Power of communication



Power of data





"Millions might lose health coverage?" Washington Post, March 12

"Affordable Care Act revision would reduce insured numbers by 24 million, CBO projects" *Washington Post, March 13*

Rionbrus

Armed with information, we can guide regulators and policymakers to make responsible decisions.

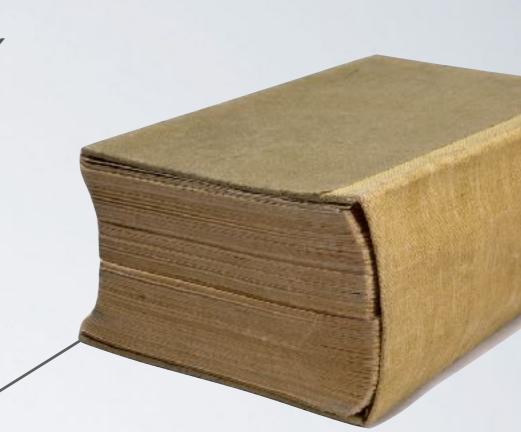
EDC-2, 2015

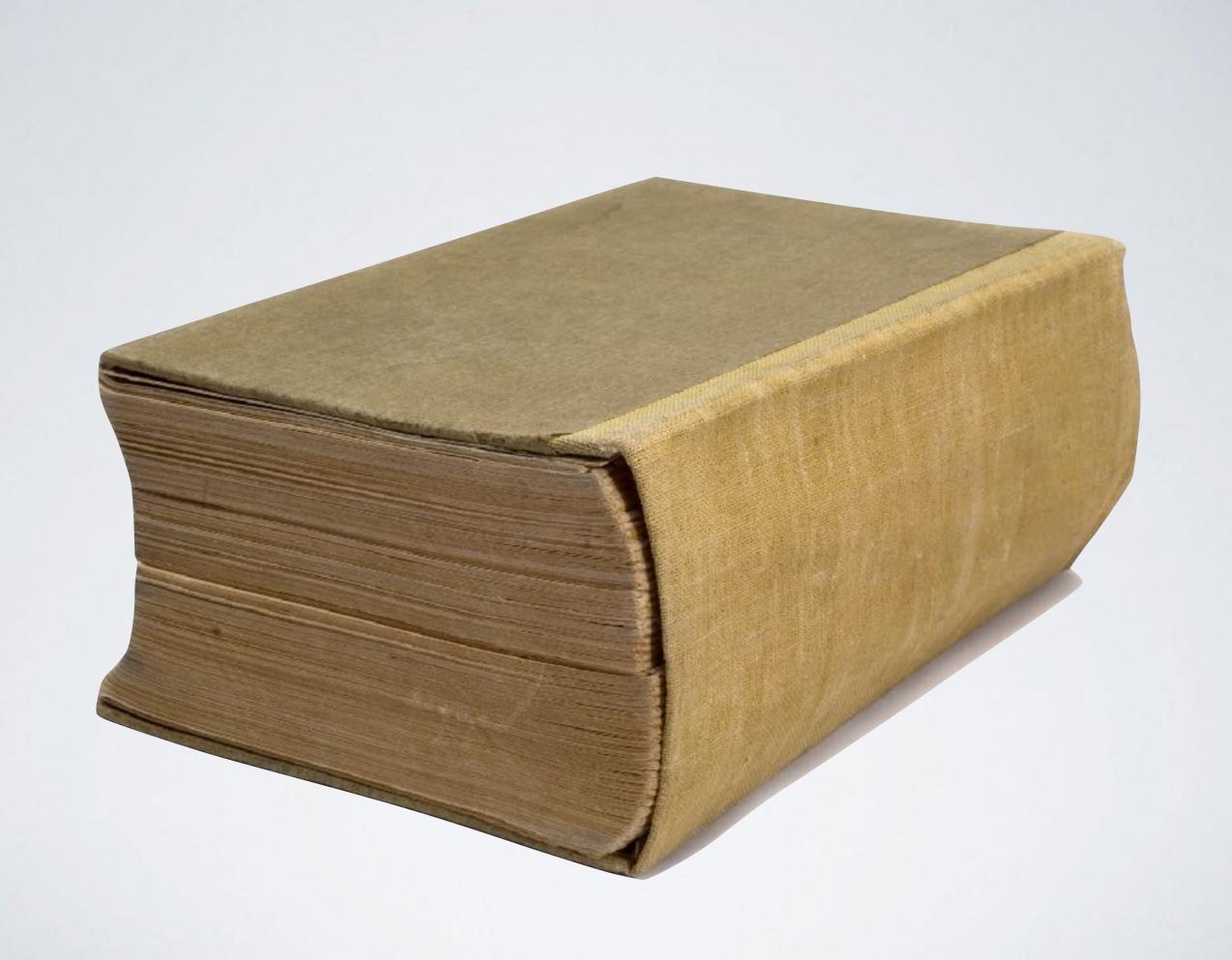
USING DATA TO CHANGE THE COSMETICS INDUSTRY

Federal Food, Drug and Cosmetic Act

343.5 pages, **Food & Drug** safety

1.5 pages, **Cosmetic** safety





FDA AUTHORITY OVER COSMETICS

FDA cannot require companies to do safety testing of their cosmetic products before marketing.

FDA is **not permitted to require recalls** of cosmetics.

If FDA wishes to remove a cosmetic product from the market, it must first **prove in a court of law** that the product may be injurious to users, improperly labeled, or otherwise violates the law.

- U.S. Food and Drug Administration



... may cause blindness.

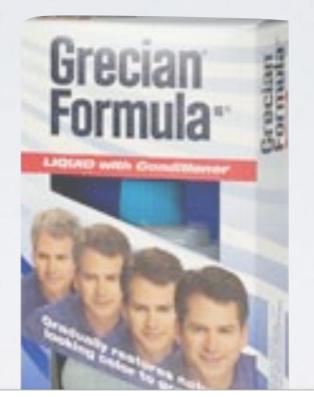




Keep out of reach of children



Do not use without consulting a doctor if child has asthma or allergies or if there is a family history of either. Serious breathing problems could occur.



Contains lead... Keep this product out of children's reach... Wash hands thoroughly after each use.

FEDERAL LAW: SAFETY STANDARD FOR COSMETICS

WARNING - The safety of this product has not been determined.





SKIN DEEP 2004

Ne he	Skin Deep ws about the safety of popular alth & beauty brands				
BRO	WSE POPULAR PRODUCTS	EWG HOMEPAGE /	/ SKIN DEEP HOME	// <u>ABOUT</u>	// HELP // DONATE
MAKE	UP SKIN HAIR NAIL EYE DENTAL & CARE CARE CARE CARE ORAL CARE	PERFUME/	- Other Product Type	s - 🗘	WHY THIS MATTERS
					FACT SHEETS
Sear		custom shopping list	FAVORITES 0 Ite	ms 🞯	WHAT YOU CAN DO
Ot Se	he lowest concern shampoon ther views: brands: highest concern lowes elect another product category: - Select a pro- sowing results 1 - 10 of 151 • Next 10 • >> Brands - lowest concern to highest concern	oduct type -	cts: highest concern - - - - - - - - - - - - -	Compace Signer (about)	t Relative Concern
1	Terressentials (see products brand report)	5	23	Yes	Low 🔵
2	Keys Soap (see products brand report)	2	10	Yes	Low 🔵
3	J. P. Durga (see products brand report)	1	10	Yes	Low 🔵
4	Dr. Bronner's (see products brand report)	1	7	Yes	Low 🔵
_			12		Low 🚍

90% of ingredients used in personal care products <u>have not been screened for safety</u> by the gov't, the industry or any other publicly accountable institution

- Analysis of data in Skin Deep

500 products with ingredients banned in other countries

- Analysis of data in Skin Deep

INDUSTRY SPEEDS UP ITS SELF REGULATION



last 4 years

days

COMPANIES REFORMULATE

Disney bisphenol A

Cover Girl dibutyl phthalate

37%

Paula Dorf mercury

Oxybenzone 19%

UVA protection in sunscreen 2.4X

Chemicals known to cause cancer, birth defects, brain damage

DATA CAN REVEALTHE GREATEST OPPORTUNITIES FOR CHANGE

23 million IQ loss **IQ** points U.S. children ages 0-5 lost Mercury Pesticides Lead

Lead rises to the top for health impacts, policy options, and partnership opportunities.

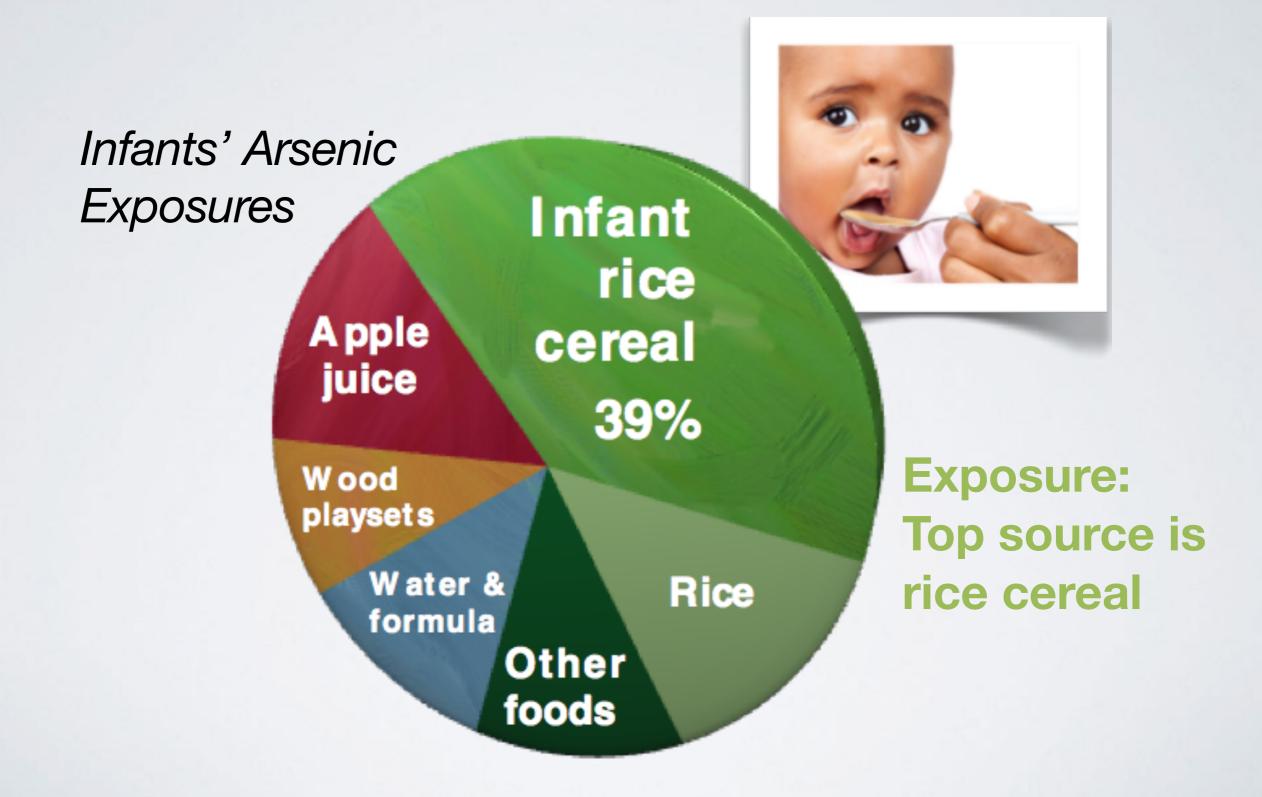


DATA FILLS CRITICAL GAPS THAT BLOCK PROGRESS

National Lead in Water Testing Program

- Partnering with the Virginia Tech (the Flint lab)
- 1000 families nationwide

DATA: IDENTIFYING THE MOST SIGNIFICANT EXPOSURE SOURCES



POWER OF DATA

Especially powerful in an era of alternative facts.

Empowers scientists and advocates with effective defense and offense.



Power of collaboration

COLLECTIVE POWER OF RESEARCH



485 studies cited



1322 studies cited

"The evidence is more definitive than ever before – EDCs disrupt hormones in a manner that harms human health. "



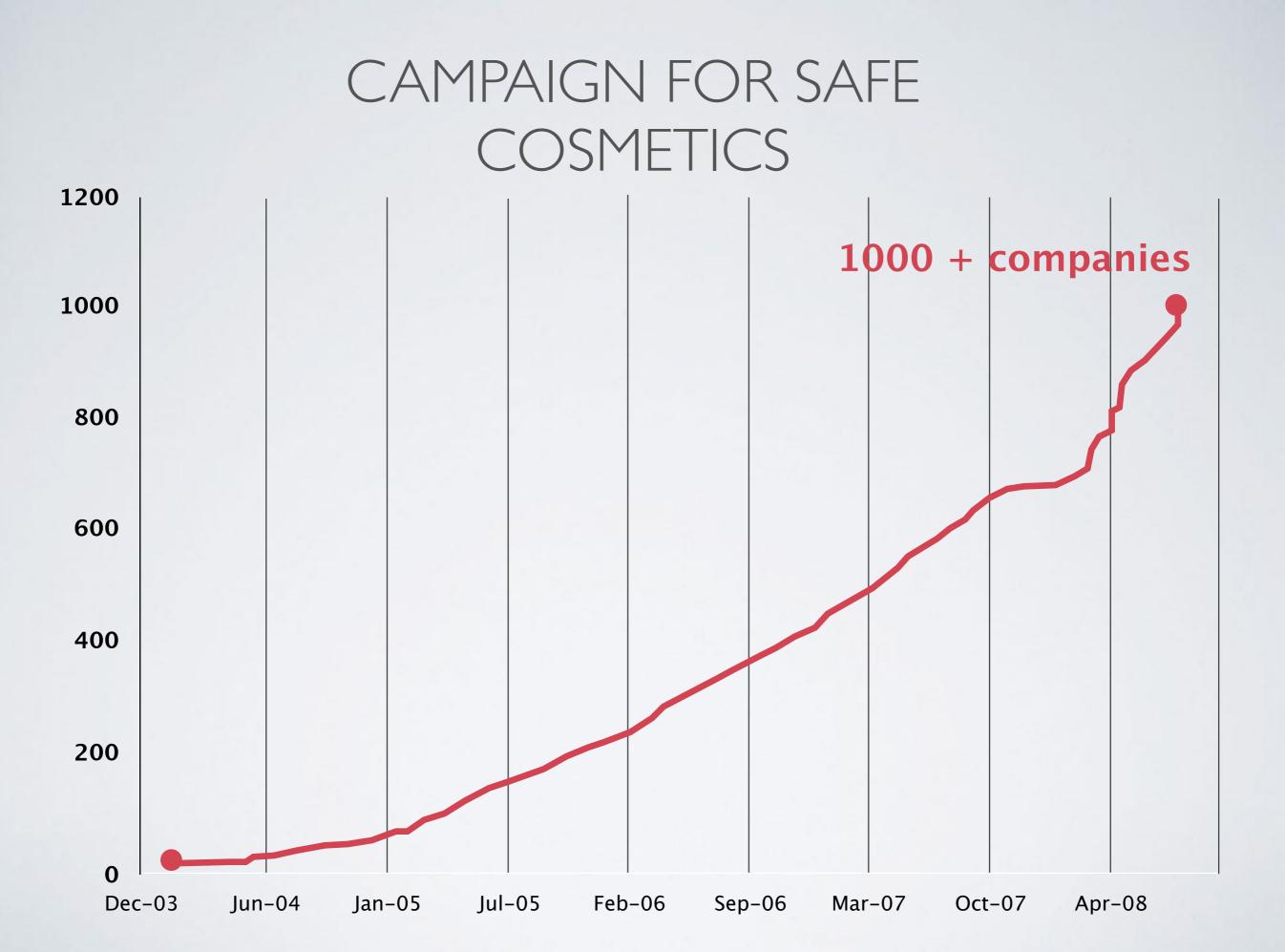
EXPECT DISRUPTION

This community of experts has formed a united front to state the undeniable: that EDCs pose a threat to human health and to the ecosystems of the earth.

"Journal editors trade blows over toxicology — Debate flares around European regulation of bisphenol A and other endocrine disrupters" *Nature, 2013*

TENDR Call to Action





COLLECTIVE ACTION DRIVES CHANGE Will meet EU standards in L'Oreal, Revlon U.S. **Remove "toxic trio" from OPI, Orly, Sally Hansen** their nail polish **Removing formaldehyde from Johnson & Johnson** baby products globally No more triclosan: Phase-J&J, L'Oreal out or policy **Ban of common toxic** FDA antibacterials **Disclosing all fragrance Procter and Gamble** ingredients

STRATEGIC PARTNERSHIPS



Lead in Homes Initiative

10 cities

500 homes

 10 communitybased partner organizations Together we can make a difference.

Janie Fields Children's Environmental Health Initiative

Communication

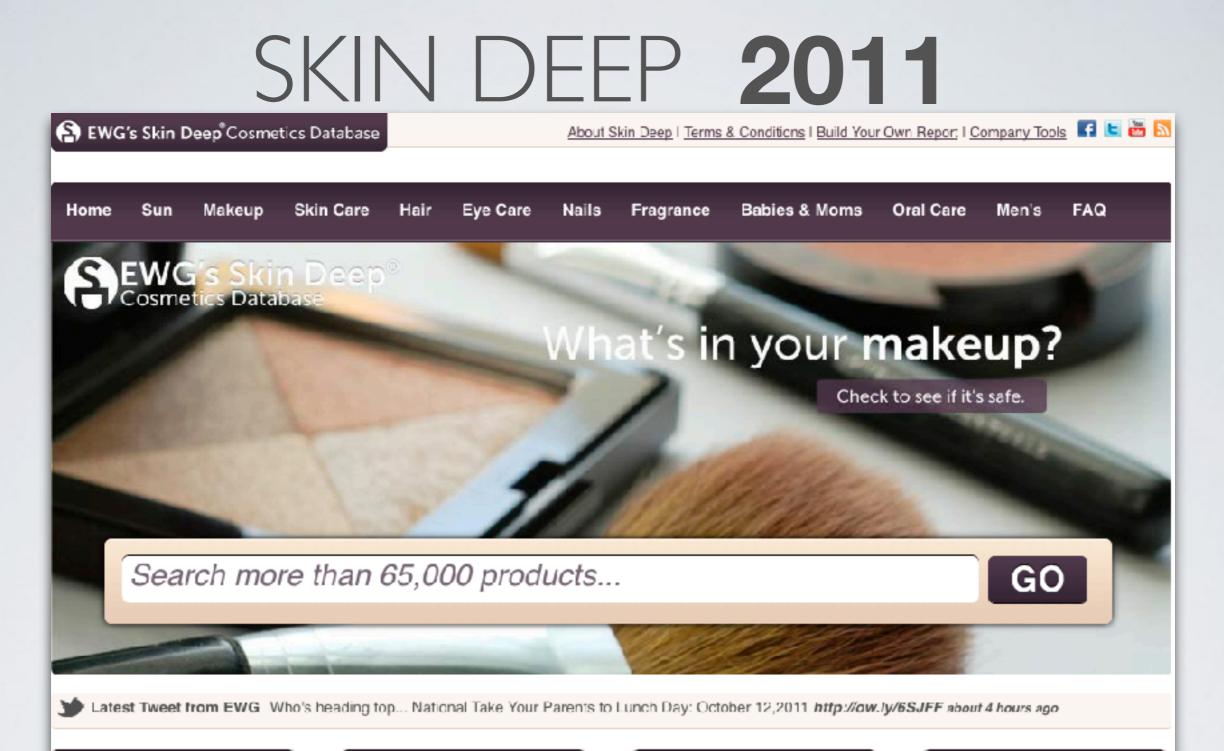
The goal is to provide inspiring information that moves people to action

Guy Kawasaki Author and venture capitalist " If you don't give people information, they'll make up something to fill the void. "

Carla O'Dell American Productivity and Quality Center

SKIN DEEP 2004

					-
Ne he	Skin Deep ws about the safety of popular alth & beauty brands roject of Environmental Working Group				
BRO	WSE POPULAR PRODUCTS	NG HOMEPAGE //	SKIN DEEP HOME	// <u>ABOUT</u>	// HELP // DONATE
MAK	EUP SKIN HAIR NAIL EYE DENTAL & CARE CARE CARE CARE ORAL CARE	PERFUME/ COLOGNE	Other Product Type	s - 🗘	WHY THIS MATTERS
Sea	rch Products 🗘 😡 advanced custo search shop	ping list	AVORITES 0 Ite	ms 😡	FACT SHEETS WHAT YOU CAN DO
Oi Se	he lowest concern shampoo b ther views: brands: highest concern lowest con- elect another product category: - Select a product nowing results 1 - 10 of 151 • Next 10 • >> • Y Brands - lowest concern to highest concern	ncern product	es: highest concern per page Ingredients Used In Shampoo Products	l <u>lowest co</u> Compac Signer (<u>about</u>	ct Relative ? Concern in Product
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_					Low 🔵



Featured research



What's in your sunscreen?

Nost sunscreens aren't safe and offective. Find the best

Children's products



Choose safe ingredients for young skin

Shampoo, body wash, diaper

Top shampoos



Lather up with better brands

Skip the fragrances and cancer-

Safer cosmetics



Safer cosmetics

Manufacturers may use almost any ingredient in products. The reversment peeds to take action

SKIN DEEP 2017

EWG's Skin Deep® Cosmetics Database								
- Home Sun Makeup Skin Care Hair Nails Fragrance Babies & Moms Oral Care	Men's EWG VERIFIED							
EWG VERIFIED products are starting to hit shelves - see which ones make the mark!								
Q Search 65,351 products Search								
Smarter Choices, Healthier Living								
Companies: To have your sunscreen products included in this year's guide, e-mail skindeep@ewg.org for submission instructions. The deadline for submitting formulations is March 17.	Essential Tips and Facts See that long list of ingredients on the back of the bottle? Some							
Get your FREE copy of EWG's Quick Tips for Choosing Safer Personal Care Products!	probably aren't as safe as you'd hope. 1 Top tips for safer products 2 Frequently asked questions (FAQs) 3 Why Skin Deep®?							

//

Women used to think they were putting on makeup. Because of Skin Deep... now they think they're putting on chemicals.

> Cosmetic Trade Association President 2009

THE POWER OF COMMUNICATION SPURS SWEEPING ACTION ON TOXIC FLAME RETARDANTS FROM CPSC



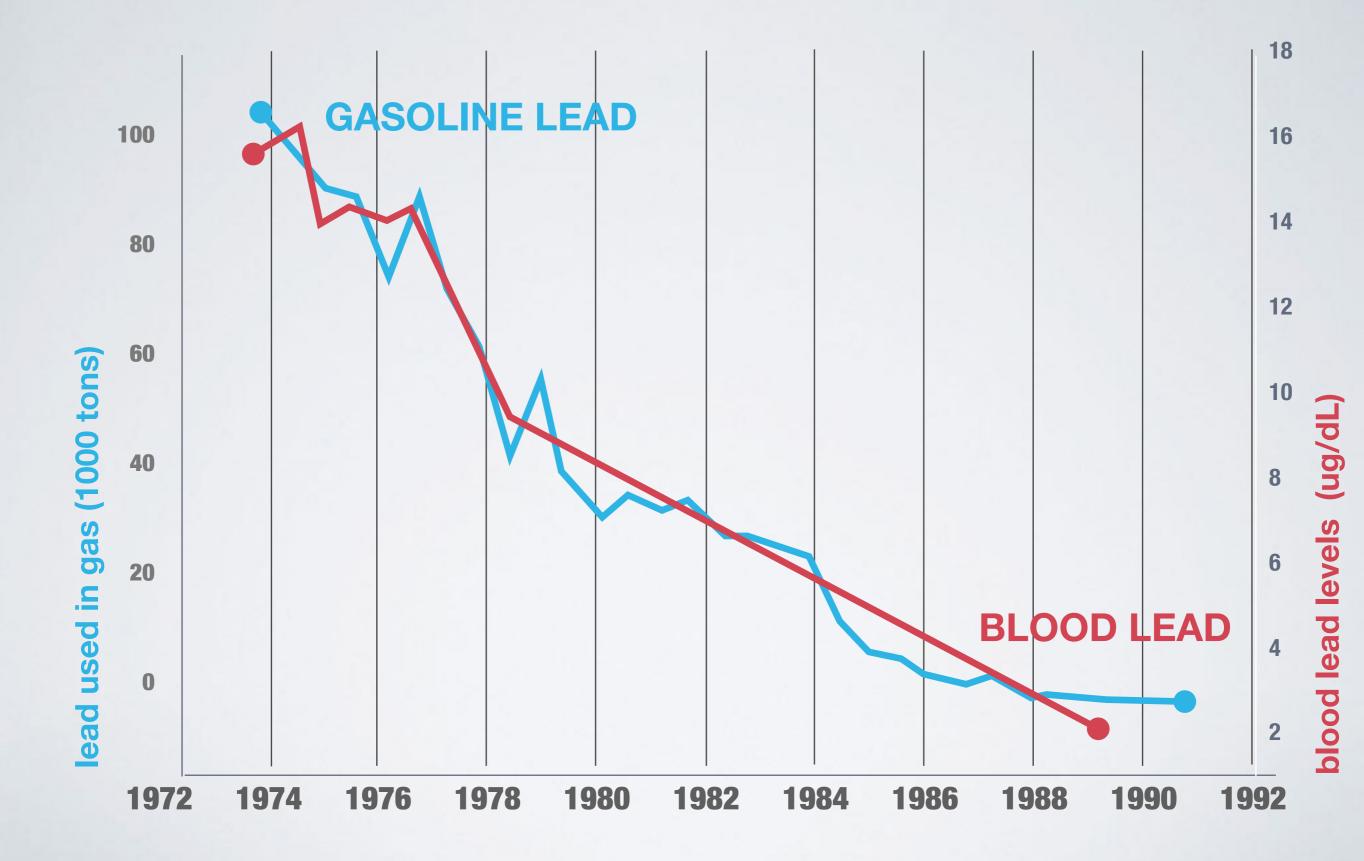
 "For the first time a federal agency is moving to outlaw an entire class of toxic flame retardants"

 Children's products, mattresses, electronic casings, furniture

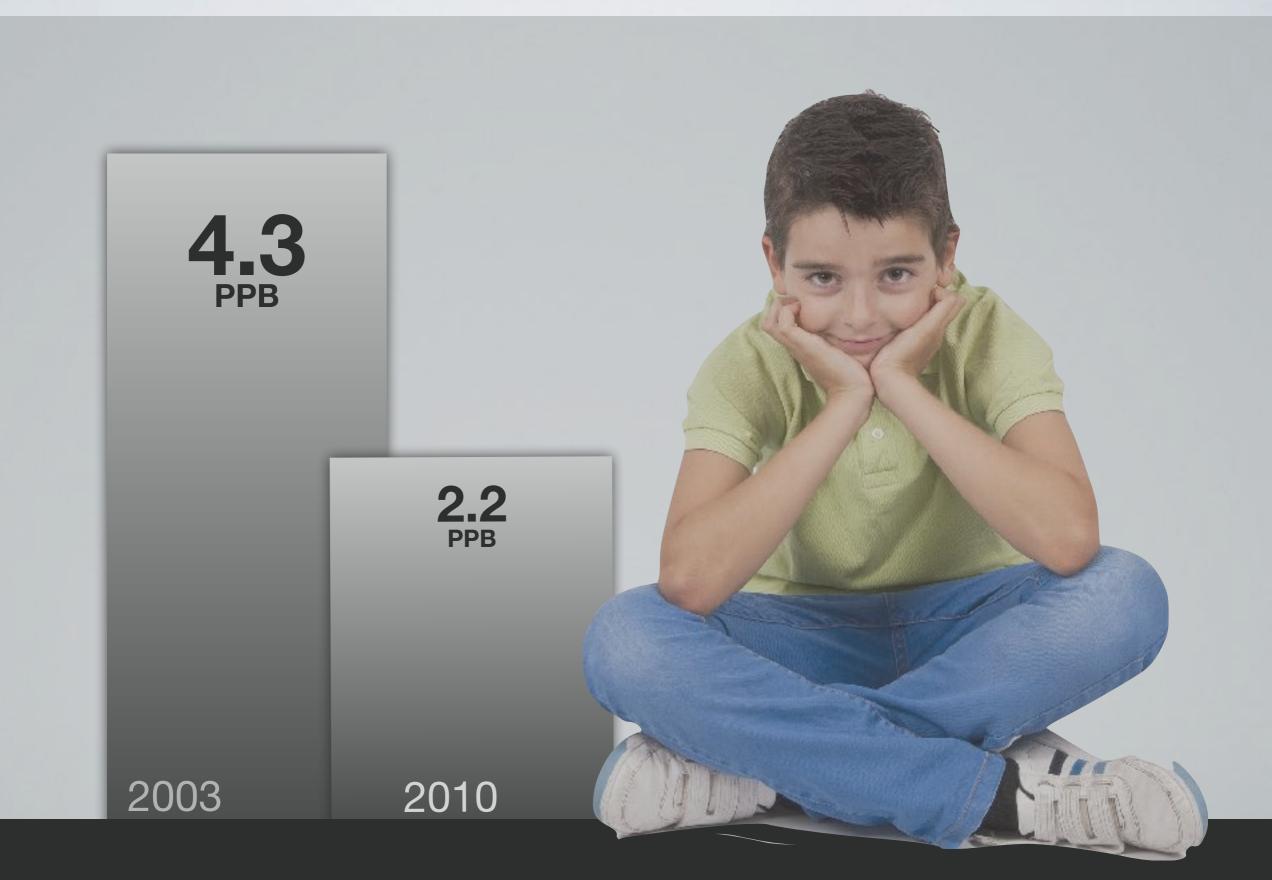




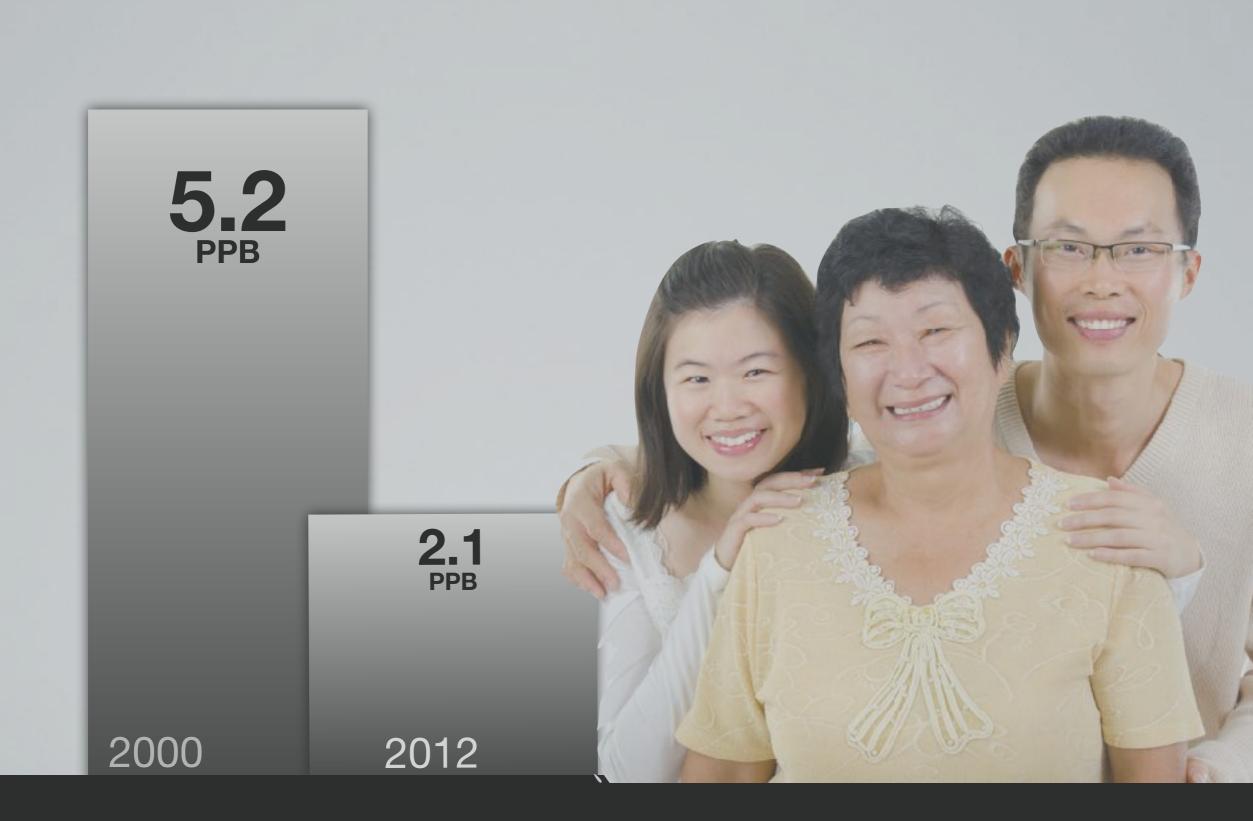
LEAD



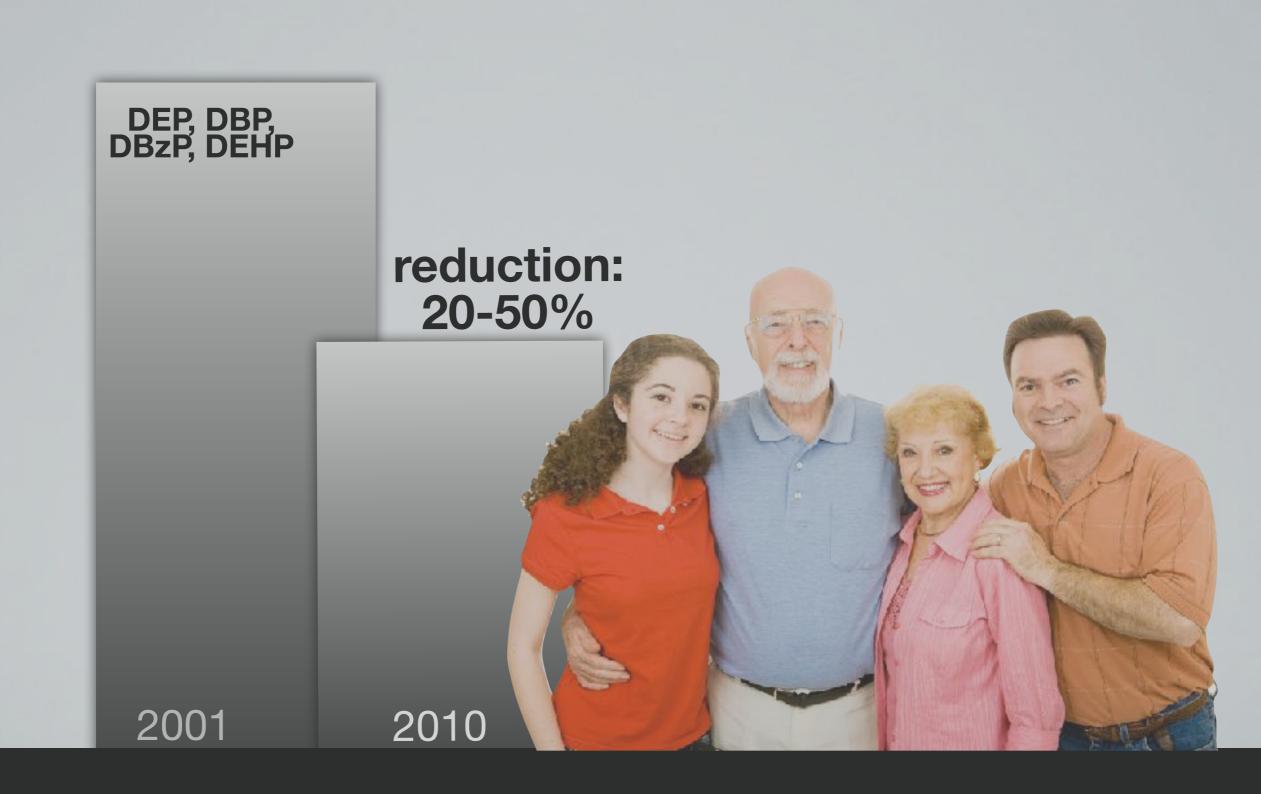
BPA



TEFLON CHEMICAL PFOA



PHTHALATE PLASTICIZERS

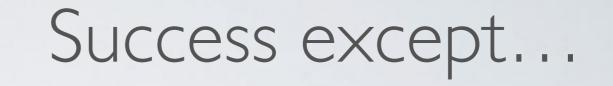


FLAME RETARDANTS IN BREAST MILK

4 PBDEs

-39%

2003-05 2009-12



They picked **that** for a substitute?

SUBSTITUTIONS IN A REGULATORY VACUUM

DEHP, DBP, DEP, DBzP DnOP, DiDP, DiNP

DBP Triphenyl phosphate **BPA BPS**, **BPF PBDE** Chlorinated Tris TDCIPP PFOS, PFOA C-6 compounds Parabens Iodopropynyl butylcarbamate



CERTIFICATION PROGRAMS



NEEDED: ORDER, FACTS, AND A STRONG SAFETY NET

THE NEWS WE READ AND CREATE

The challenges for the local govsurvivors in a few locations. to deliver aid supplies by grouping to those people, and make it easier somewhat-more-permanent sherter

appearer to prime ssurance, saying he notree-siliting access

than the treat

MILL

W S, HIVH

ounouue se

Press repo

s to spires

deliver sur

vecote a cut

Power of optimism



TOP 3 TIPS

Celebrate success (and consider a news fast)

Get inspired by optimistic visions (like Tomorrow the documentary)

Get to work!

This world demands the qualities of youth: not a time of life but a state of mind, a temper of the will, a quality of imagination, a predominance of courage over timidity, of the appetite for adventure over the love of ease.

Robert F. Kennedy

