

Think about these questions before we begin:

- ◆ Do you think there's more asthma, diabetes, cancer, infertility and other chronic diseases in your community and in your family than there used to be?
- ◆ Do you think people you work with or used to work with are getting sick from chemicals or other exposures from your workplace? What diseases are they getting?
- ◆ Has there been a toxic chemical spill or water contamination or fish advisory or another chemical story in your community? What happened?

**NIEHS Trainers'
Exchange
March 29
2012**

Dangerous Chemicals and Safer Alternatives

**Working together to create a
chemistry of change**

Review of Agenda and Introductions

1. Why we should we care about chemicals.
 - ◆ Presentations
2. How the science has changed but the laws have stayed the same
 - ◆ Small group discussions
 - ◆ Small group report backs and working together to perform short presentations
3. What others are doing about the problem and what we can do.
 - ◆ Evaluations
 - ◆ Next steps



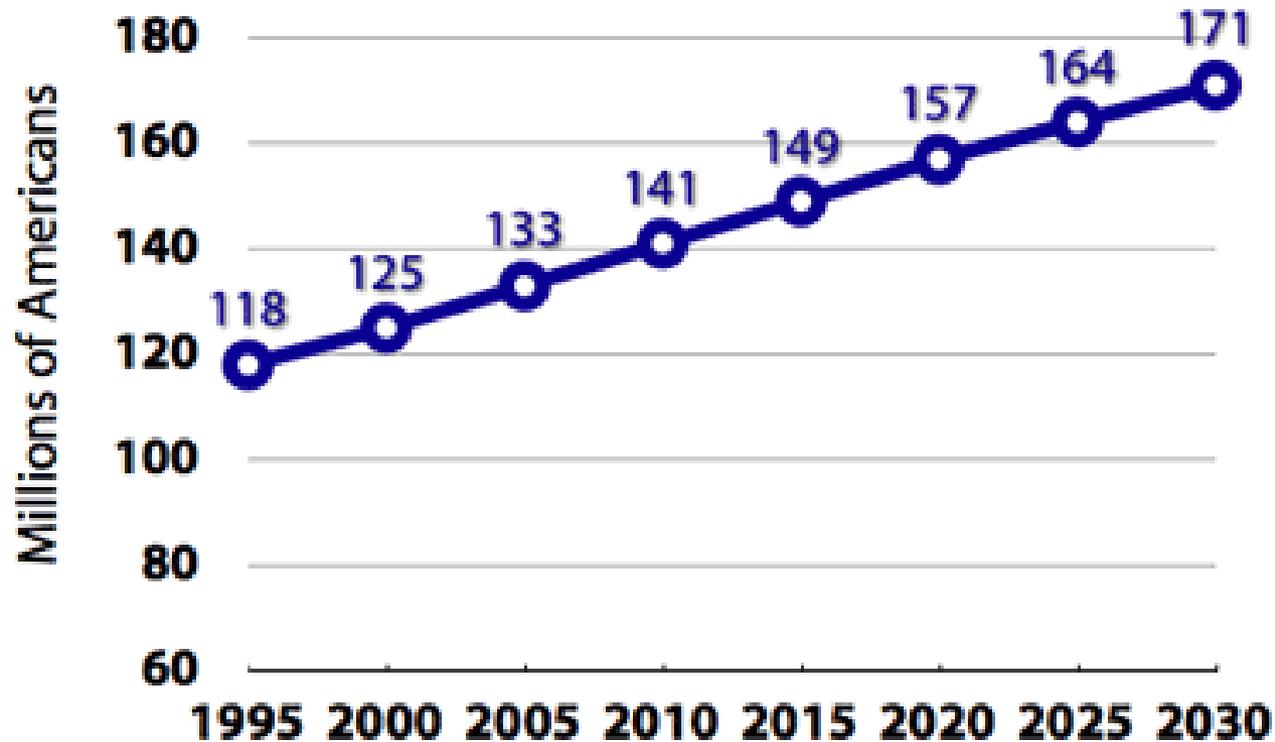
Clean and Healthy Environment

When workers are protected so is the environment

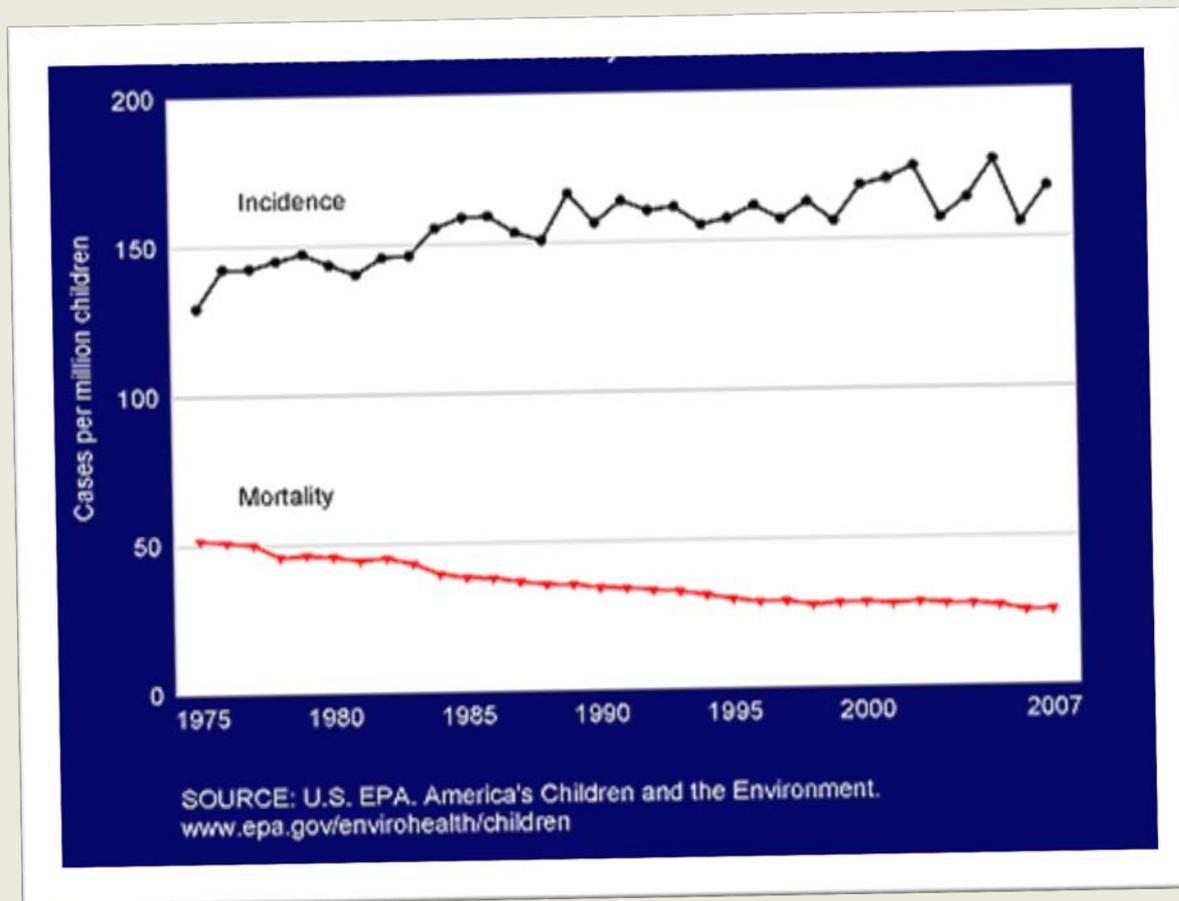


Safer, healthier, better protected workers help
create safer and healthier products

Prevalence of Chronic Disease in the U.S.



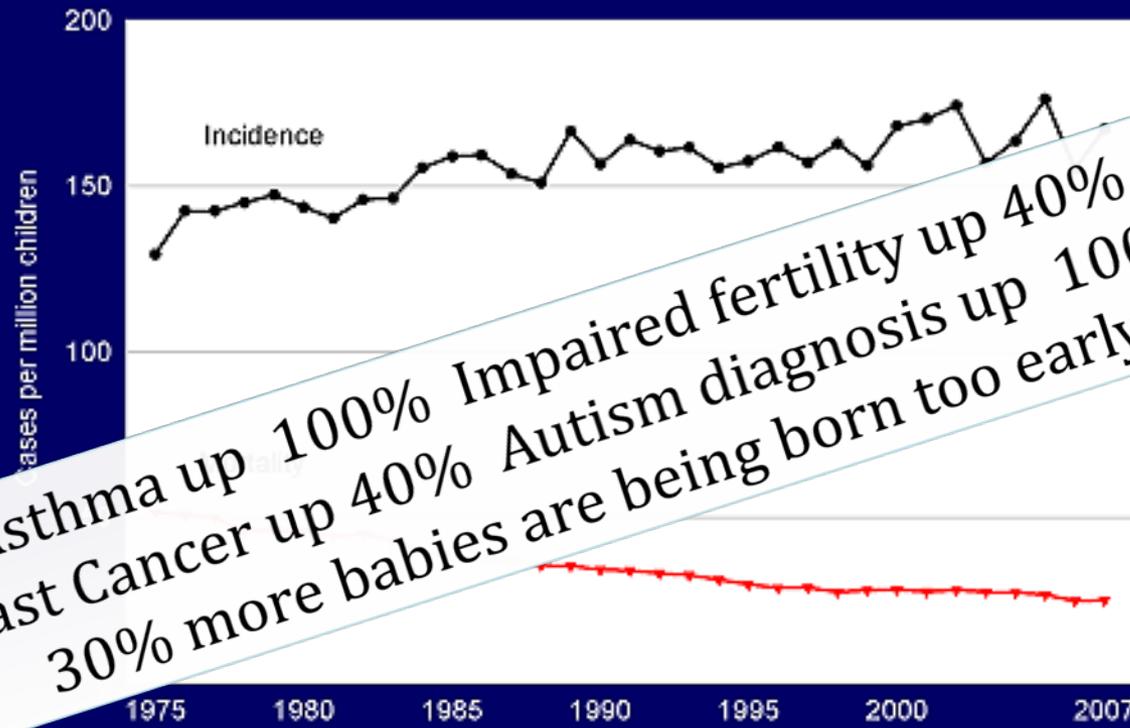
Source: Wu, Shin-Yi *et al.* 2000. Projection of Chronic Illness Prevalence and Cost Inflation. RAND Corporation.



Cancer Incidence and Mortality in Children

More children are *getting* cancer but fewer children are *dying* from cancer.

Cancer incidence and mortality for children under 20



Asthma up 100% Impaired fertility up 40%
Breast Cancer up 40% Autism diagnosis up 10000%
30% more babies are being born too early

SOURCE: U.S. EPA. America's Children and the Environment.
www.epa.gov/envirohealth/children

DATA: National Cancer Institute, Surveillance, Epidemiology and End Results Program

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**Why do we think the
increase in chronic
disease has anything to
do with chemicals?**



How the Reproductive Problems of Florida Panthers and American Men Are Connected



Endocrine disrupting chemicals

Chemicals that fool our systems by imitating or blocking natural hormones



DBCP: Infertility in the California workers who produced it and the Central American farmworkers who used it

Jury Awards Millions to Farmers Sterilized by Pesticides

By Brandon Keim 

November 06, 2007 | 11:02:12 AM

Categories: [Agriculture](#), [Health](#)

A California jury yesterday awarded \$3.3 million to six Nicaraguan farm workers sterilized by pesticides made by Dow Chemical and used at Dole's banana plantations.

The plaintiffs alleged that Dow and Amvac, another chemical company, hid information about the dangers of dibromochloropropane, or DBCP: high exposures left lab animals organ-damaged, sterile and prone to birth defects. The Occupational Health and Safety Administration sets DBCP's occupational exposure limit at **one part per billion per workday**; during the 1970's and 1980's, the plaintiffs reportedly inhaled DBCP vapors and wore clothing soaked by water dripping from DBCP-treated trees.





Agent Orange

What We Learned from an Uncontrolled
Experiment on American Soldiers and the
People of Southeast Asia



- o Hodgkin's Disease, non Hodgkin's lymphoma, Prostate Cancer, Chronic B-cell Leukemia, Respiratory Cancers, Type 2 Diabetes, Ischemic Heart Disease, Parkinson's Disease



Breast Cancer and DDT



Why Timing Can Matter More than Dose



2009

Fourth National Report on Human Exposure to Environmental Chemicals



Executive Summary

Department of Health and Human Services
Centers for Disease Control and Prevention



MAKE ME BPA free!

Action for Children North Carolina
 Alaska Consumer Action on Toxics
 American Association on Intellectual and
 Developmental Disabilities
 American Nurses Association
 America's Prostate Alliance
 Asthma Health Services
 Axis of Reproductive Health Professionals
 Autism Society
 Bayview Hunters Point Community Advocates
 BioGreen Alliance
 Breast Cancer Action
 Breast Cancer Fund
 California Church IMPACT
 California Environmental Rights Alliance
 California WIC Association
 Capital Region Action Against Breast Cancer
 Center for Health, Environment & Justice
 Chicago Consortium for Reproductive Health
 In Priority Communities
 Children's Alliance of New Hampshire
 Children Now
 Clean New York
 Clean Production Action
 Clean Water Action
 Coalition for a Safe & Healthy Connecticut
 Connecticut
 Connecticut Alliance for Children
 Connecticut Consortium for Reproductive Environmental
 Health in Priority Communities
 Consumers Union
 Empire State Consumer Project
 Environment California
 Environmental Health Fund
 Environmental Health
 Environmental Justice Action Group of Western
 New York
 Environmental Working Group
 Eye Focus
 Friends of the Earth US
 Greenpeace
 Healthy Building Network
 Healthy Child Healthy World
 Illinois Public Interest Research Group
 Informal Green Solutions
 Institute of Neuroendocrinology & Neurological
 Diseases
 Iowa Breast Cancer Site-action
 Learning Disabilities Association of America
 Learning Disabilities Association of Minnesota
 Maryland Public Interest Research Group
 Massachusetts Breast Cancer Coalition
 Minnesota Assn. for Children's Mental Health
 Minnesota Public Interest Research Group
 MOPRA: Mothers of Pups Against the Sprays
 MOPS - Making Our Milk Safe
 Monell
 Movement Strategy Center
 National Assembly on School-Based Health Care
 National WIC Association
 National Resources Council of Maine
 National Resources Defense Council
 New Mexico Voices for Children
 Nursing Mothers Council
 Physicians for Social Responsibility
 Physicians for Social Responsibility - Los Angeles
 Planned Parenthood New Mexico
 Rachel's Friends Breast Cancer Coalition
 Teens Turning Green
 Tennessee Environmental Council
 The Aeris Appraised Project
 The Endocrine Disruption Exchange
 The Lead Coalition
 Toxic Action Center Campaigns
 United States
 U.S. Public Interest Research Group
 Vermont Public Interest Research Group
 Values for Vermont's Children
 Washington Toxics Coalition
 Wisconsin Public Interest Research Group
 Women's Environmental Institute
 Women's Voices for the Earth
 Worldwide, Inc.



BPA is a synthetic estrogen linked to obesity, neurological disorders, early puberty, and increased risk of breast and prostate cancer.

We don't need BPA in infant food packaging when there are safer alternatives on the market!

Support Senator Feinstein's amendment to the Food Safety Modernization Act to eliminate bisphenol A from infant formula and baby food packaging, baby bottles and sippy cups.

Senators: Please don't gamble with our children's health.

See www.breastcancerfund.org/MakeMeBPAFree for a full list of the nonprofit organizations representing 39.7 million Americans who support getting BPA out of infant food packaging.



CDC reports that Bisphenol A (BPA) is in more than 90% of the American people and Perchlorate is in all of us

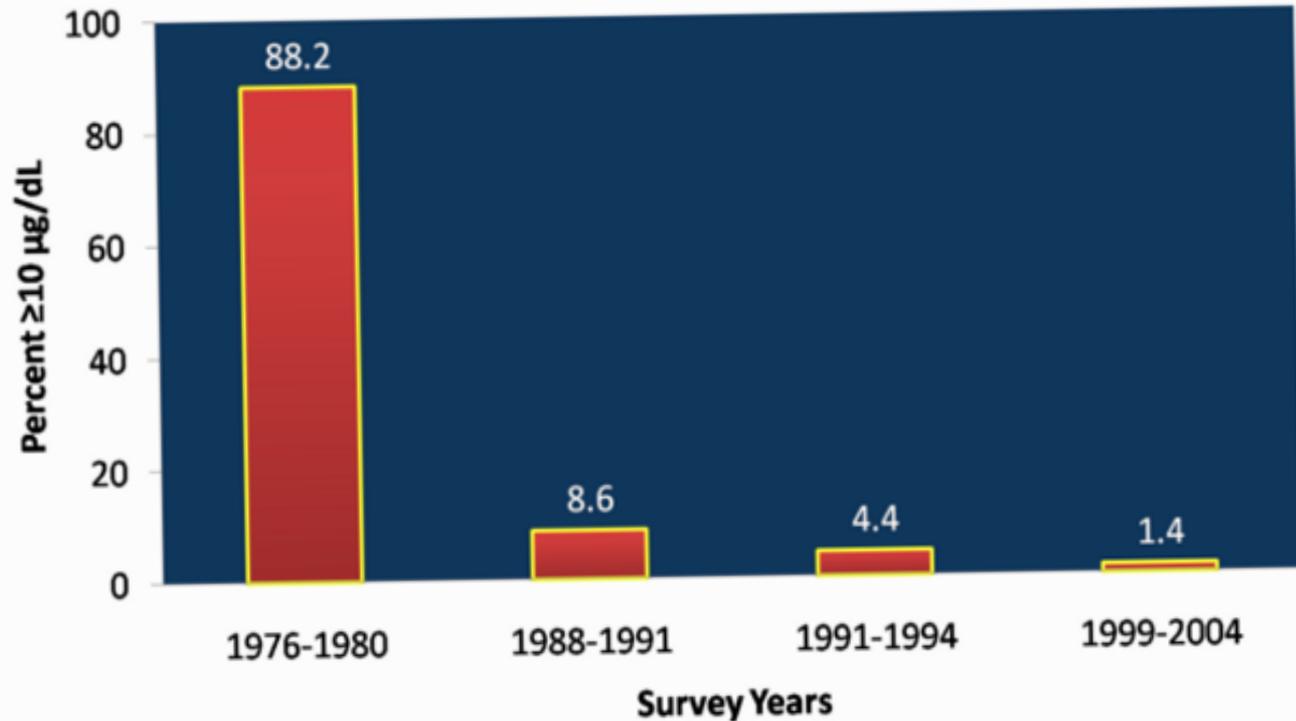


Figure 1. Percentage of children 1–5 years old in the U.S. population with elevated blood lead levels ($\geq 10\mu\text{a/dL}$).¹

From the CDC's 2009 Fourth National Report on Human Exposure to Environmental Chemicals

Why do we think the increase in chronic disease has anything to do with toxic chemicals? Because in the last 40 years we've learned:

Some chemicals that were considered safe have turned out to be really dangerous, leading to many different types of disease, many years after exposure.

Animal studies and wildlife tragedies can predict harm in humans.

The timing of exposure can be the most important factor in whether a chemical is dangerous.

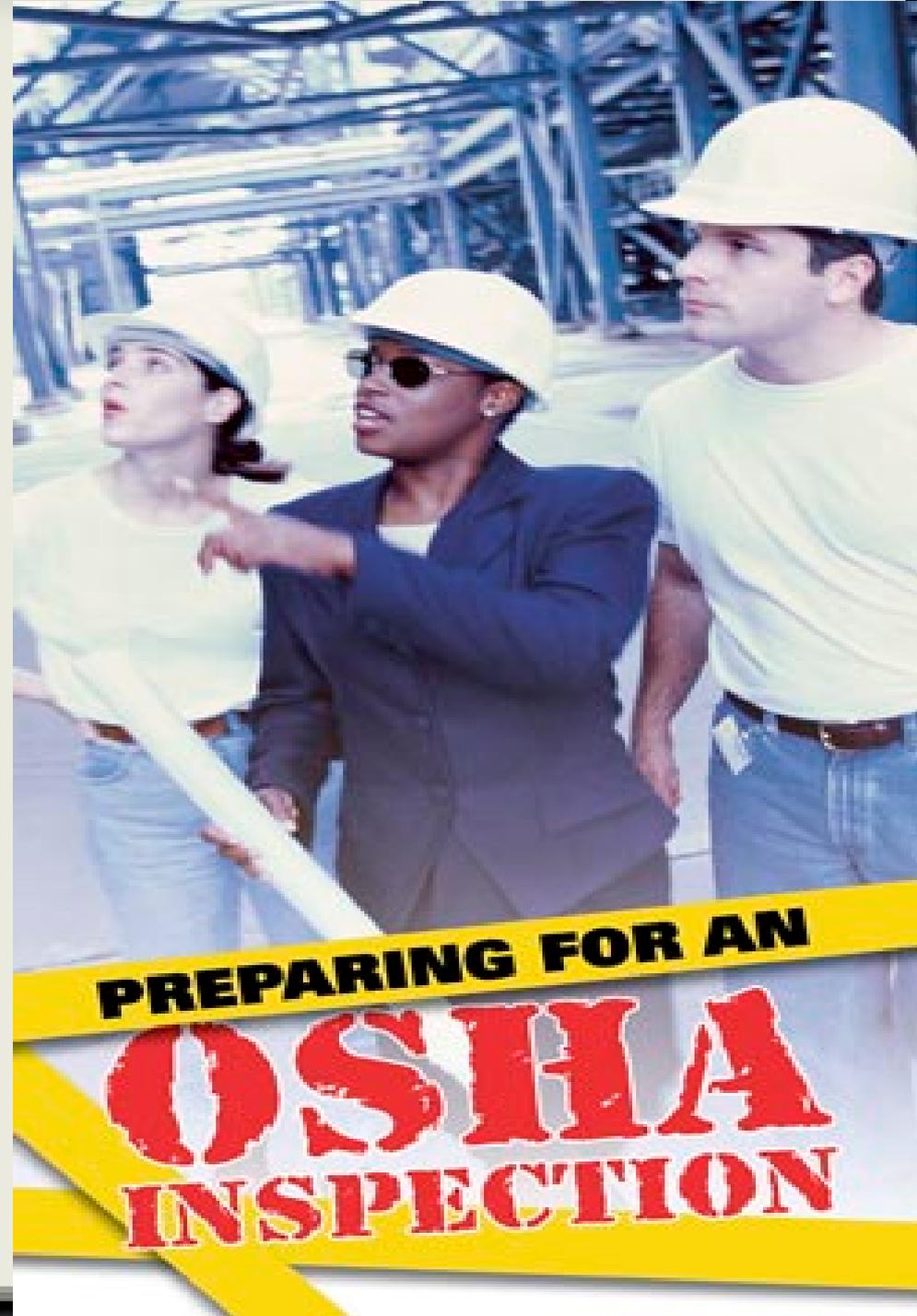
Everyone in the United States is contaminated by toxic chemicals.

Public policies can reduce our bodies' burden of chemicals.

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**Our Laws Haven't Kept
Up with Developments
in Science**

The Occupational Safety and Health Administration is supposed to “ensure safe and healthful working conditions for working men and women.”



The Toxic Substances Control Act (TSCA)

80,000 different chemicals have been produced and used since TSCA became law in 1976.

62,000 of these chemicals were grandfathered in when TSCA became law with no requirement that they be tested and shown to be safe.

In the **36** years that TSCA has been the federal law on chemicals, EPA has required testing on just **200** chemicals.

When EPA was prevented from using TSCA to restrict asbestos **21** years ago, it gave up trying.

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**Taking the Law Into Our
Own Hands**



Researching toxic chemicals in everyday products

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Google Custom Search Search powered by Google

Product Search

All Departments

GO

HealthyStuff Home

Toys

Children's Products

Pets

Cars

Apparel & Accessories

Home Improvement



Advertisement for Maggie's socks: Get these NIFTY SOCKS! When You Donate \$30 or more to Healthy Stuff (made with organic cotton)

Advertisement: TAKE ACTION! Demand Safer Chemicals for Your Family

Logo: Safer Chemicals Healthy Families. Text: JOIN A NATIONWIDE EFFORT TO PASS SMART FEDERAL POLICIES THAT PROTECT US FROM TOXIC CHEMICALS

Support Our Work, Press Room, HealthyStuff To-Go

HealthyStuff News

New Guide to Toxic Chemicals in Cars Helps Consumers Avoid "New Car Smell" As Major Source of Indoor Air





Donate | Sign Up! | Email Us | Español via Google

Google Custom Search Search powered by Google

Product Search

Toys

GO

Toys Home

Take Action

About Healthy Toys

Toy Rankings

Chemicals of Concern

FAQs

Press / Media

Resources

Toy Rankings

Using the toy search

List by brand

List by type

List by Level of Concern

List by Chemical Detected

My list

Results of Previous Tests

Click HERE to tweet this result!



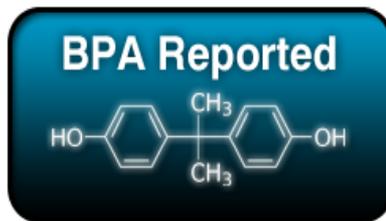
Find Us on Facebook!



Product Details for Toys

3 Police Officers

Playmobil



See more products with BPA »

Manufacturer

Playmobil

Distributor

Geobra Brandstätter GmbH & Co. KG

Information Source

This data was submitted to the Maine Department of Environmental Protection as required by law (LD 2048: An Act To Protect Children's Health and the



IMPORTANT NOTE: This information is meant to educate the public about whether certain chemicals were reported to be present in consumer products by their manufacturers in compliance with the Priority

 **Want a free Cosmetics Guide?**
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Search more than 69,000 products...

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Hair Care | Hair-loss Treatment

Showing 1 - 10 of 55 results See more: 1 2 3 4 5 6 Next>

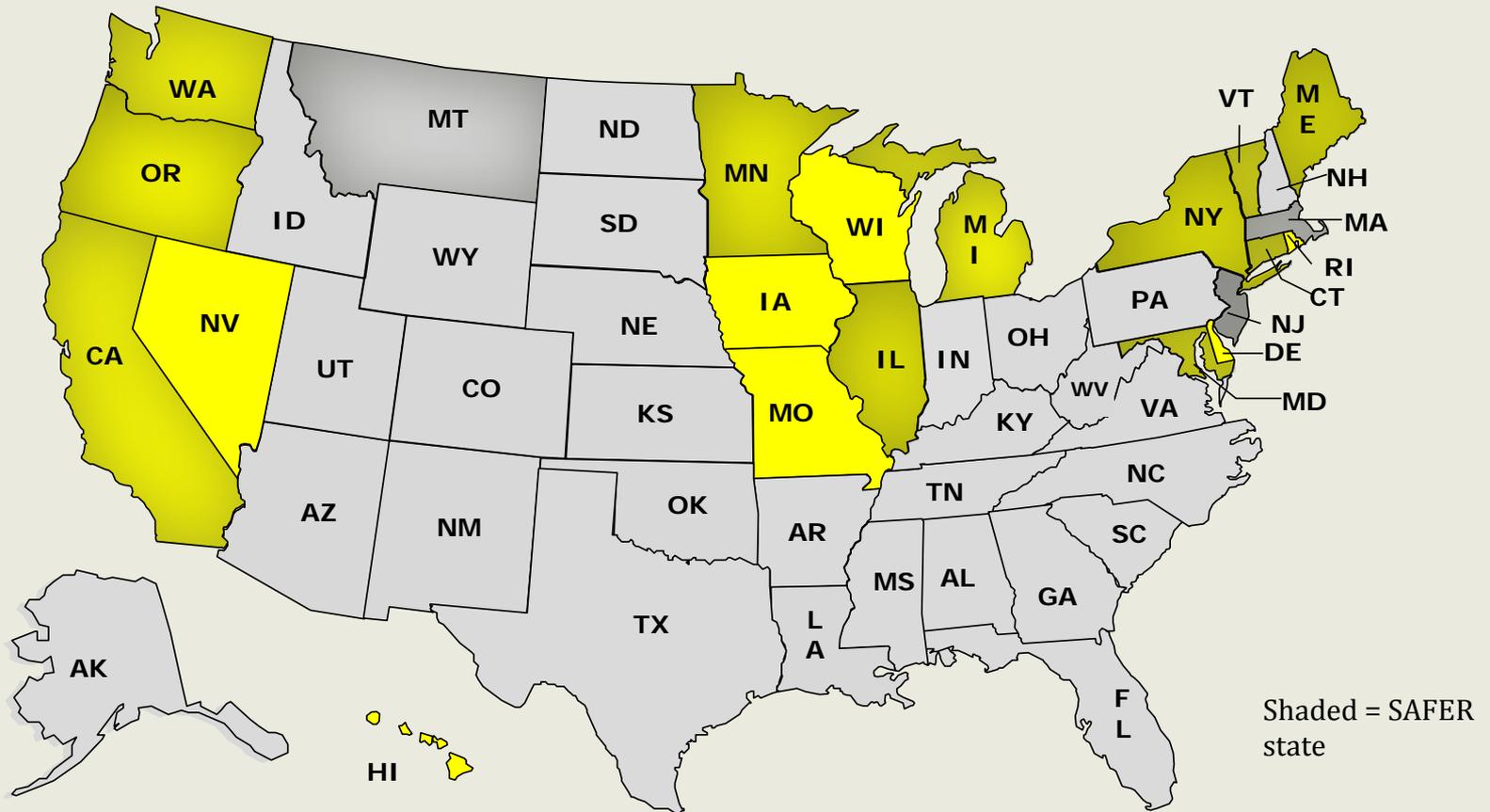
Essential Tips and Facts

See that long list of ingredients on the back of the bottle? Some probably aren't as safe as you'd hope.

- 1 [Top tips for safer products](#)
- 2 [Frequently asked questions \(FAQs\)](#)
- 3 [What's new in Skin Deep®?](#)
- 4 [Myths on cosmetic safety](#)
- 5 [User's guide to Skin Deep®](#)

	product	Product type(s)	Score ▲
1.	 Rogaine Men's Easy-To-Use Foam	Hair-loss Treatment	 Data: Fair
2.	 Jason Natural Cosmetics Thin to Thick Extra Volume Conditioner	Conditioner, Hair-loss Treatment	 Data: Limited
	 Purito Retinol Encapsulated Serum for Acne		

Toxics Legislation Passed 2003 – 2011

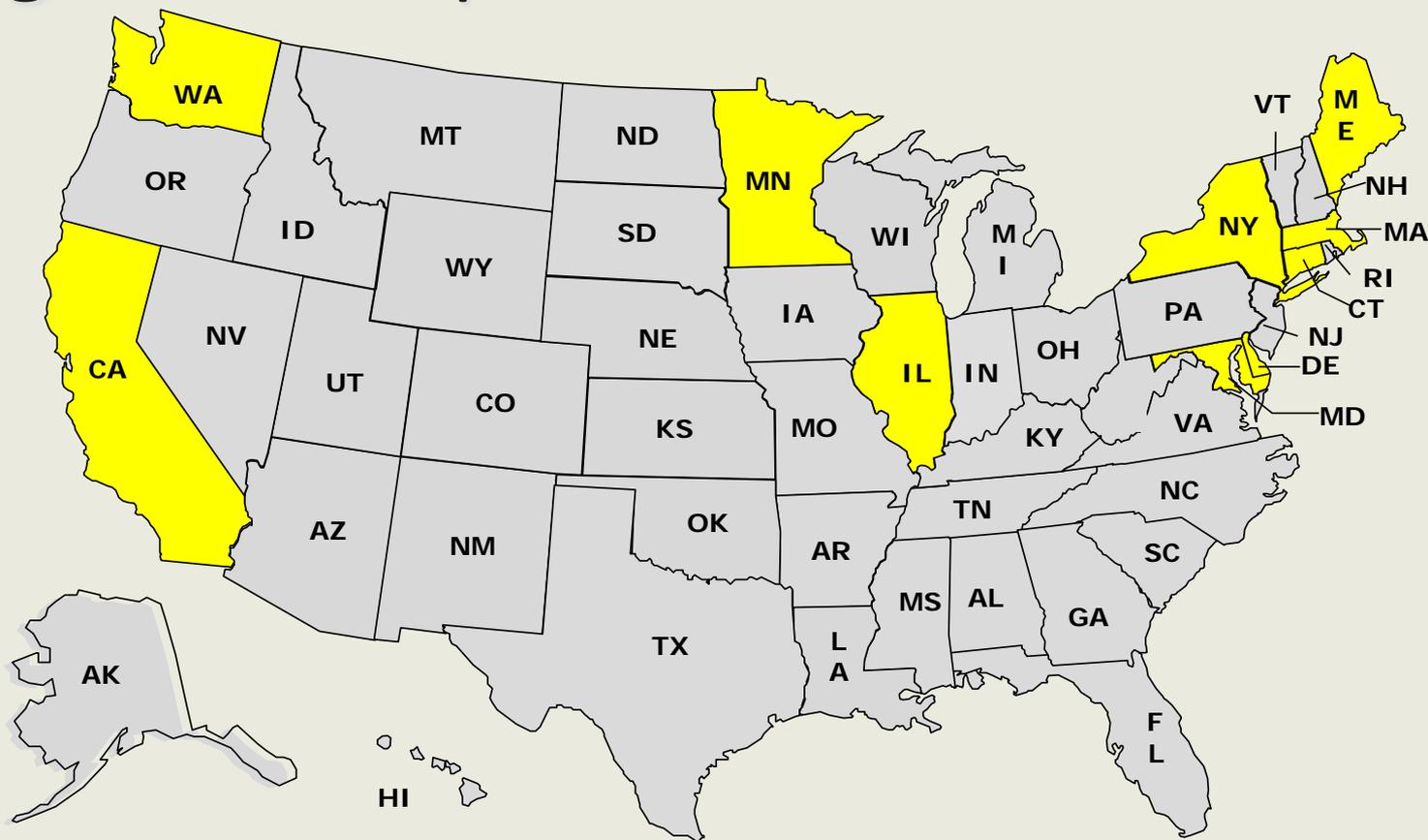


•81 chemical safety laws adopted 2003-2011 in 18 states encompassing 41% of US population

* Eleven Republican and Seventeen Democratic Governors signed bills

* Bills passed with support from over 3/4 of Republican legislators (76%), and nearly all Democrats (99%)

New Toxics Legislation Adopted and Significant Implementation Action in 2011



- In 2011, 11 policies passed in 8 states: Maryland (BPA & cadmium), Maine (BPA & comprehensive), Illinois (TSCA resolution), California (BPA & TSCA resolution), Massachusetts (TSCA resolution), Connecticut (1st in nation BPA in receipts), Delaware (BPA), and New York (1st in nation chlorinated tris)

BizNGO Guiding Principles for Chemicals Policy

Endorsers include ...

- Brooks Sports
- Catholic Healthcare West
- Construction Specialties, Inc.
- Health Care Without Harm
- Hewlett-Packard Company
- Hospira, Inc.
- Kaiser Permanente
- Method
- Novation
- Perkins+Will
- Practice Greenhealth
- Premier, Inc.
- Seventh Generation
- Staples, Inc.
- Whole Foods Market, Inc.

1. Know and disclose
product chemistry

2. Assess and avoid hazards

3. Commit to continuous
improvement

4. Support public policies and
industry standards



BizNGO

FOR SAFER CHEMICALS AND SUSTAINABLE MATERIALS



Chemical Name Goes Here

How can this chemical affect my health?

■ ACUTE (SHORT-TERM) HEALTH EFFECTS



Poisonous - There will be a brief description of approximately ten to fifteen words right here, no more than four lines long.



Triggers Asthma - There will be a brief description of approximately ten to fifteen words right here, up to four lines long.



Throat/Breathing Problems - There will be a brief description of approximately ten to fifteen words right here, up to four lines long.



Skin Rash/Irritation - There will be a brief description of approximately ten to fifteen words right here, up to four lines long.

■ CHRONIC (LONG-TERM) HEALTH EFFECTS



Throat/Breathing Problems - Brief description of approximately ten to fifteen words right here, up to four lines long.



Skin Rash/Irritation - There will be a brief description of approximately ten to fifteen words right here, up to four lines long.

How is this chemical commonly used?

• Most Common Use #1

• Most Common Use #2

• [More Common Uses](#)

Verizon 12:00 AM
ChemHAT

www.chemhat.org Google

ChemHAT.org

Chemical Hazard and Alternatives Information



Enter chemical name or CAS # ([help](#)):

OR

Industry (Select one) ▼

Process (Select one) ▼

Designed for workers by workers in CWA-IUE

Verizon 12:00 AM
ChemHAT

www.chemhat.org Google

ChemHAT.org

Chemical Hazard and Alternatives Information



[search again](#) • [key to symbols](#)

Chemical Name

How can this chemical affect my health?

- **Acute (Short-Term) Health Effects**

 **Poisonous** - There will be a brief description of approximately ten to fifteen words right here, no more than four lines long.

 **Triggers Asthma** - There will be a brief description of approximately ten to fifteen words right here, up to four lines long.

Poison



Triggers Asthma



Throat/
Breathing Problems



Causes Cancer



Ingestion



Gloves Required



Birth Defects



Inhalation



Safety Glasses Required



Affects Reproductive System and/or Disrupts Hormones



Skin Contact



Respirator Required



Toxic to the Brain/ Nervous System



Skin Absorption



Safety Shoes Required



Other Health Effects (Heart/Liver/Kidney/Blood)



Protective Equipment Required



Causes Asthma



Substitution





Joining the ChemHAT Design Team

Your health and safety committee has decided to convince your company to switch from using a dangerous chemical to a safer alternative.

What information would you need ChemHAT to provide to help you get your employer to do the right thing?

<http://chemhat.violadigital.com/>

