

GreenWERCS

An Alternatives Assessment Approach to Chemical Intensive Products

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Product Chemicals Management for Retailers

May 3, 2011



Walmart Sustainability Goals



***To be supplied
100% by renewable
energy***



***To create
zero waste***



***To sell products
that sustain
communities &
the environment***



Preferred Chemical Principles

Preferred for Mother, Child, and the Environment

When we suspect that an ingredient in a product or the product itself is capable of causing harm to human health and the environment, we will act to find better alternatives.

We will favor those products that do not contain the following:

Chemicals Harmful to Human Health

Carcinogens – can cause cancer

Mutagens – can damage genetic material

Reproductive Toxicants – may affect reproduction or the unborn

Chemicals Harmful to the Environment

Persistent – do not break down in the environment

Bioaccumulative – builds up in the food chain

Toxic – causes death or damage to organisms in the environment



21st Century Leadership

Walmart's Key Takeaways

~~Compliance~~

~~Tradeoffs~~

Leadership

Innovation

Systems Thinking

Partnership



Priority Chemicals Plan

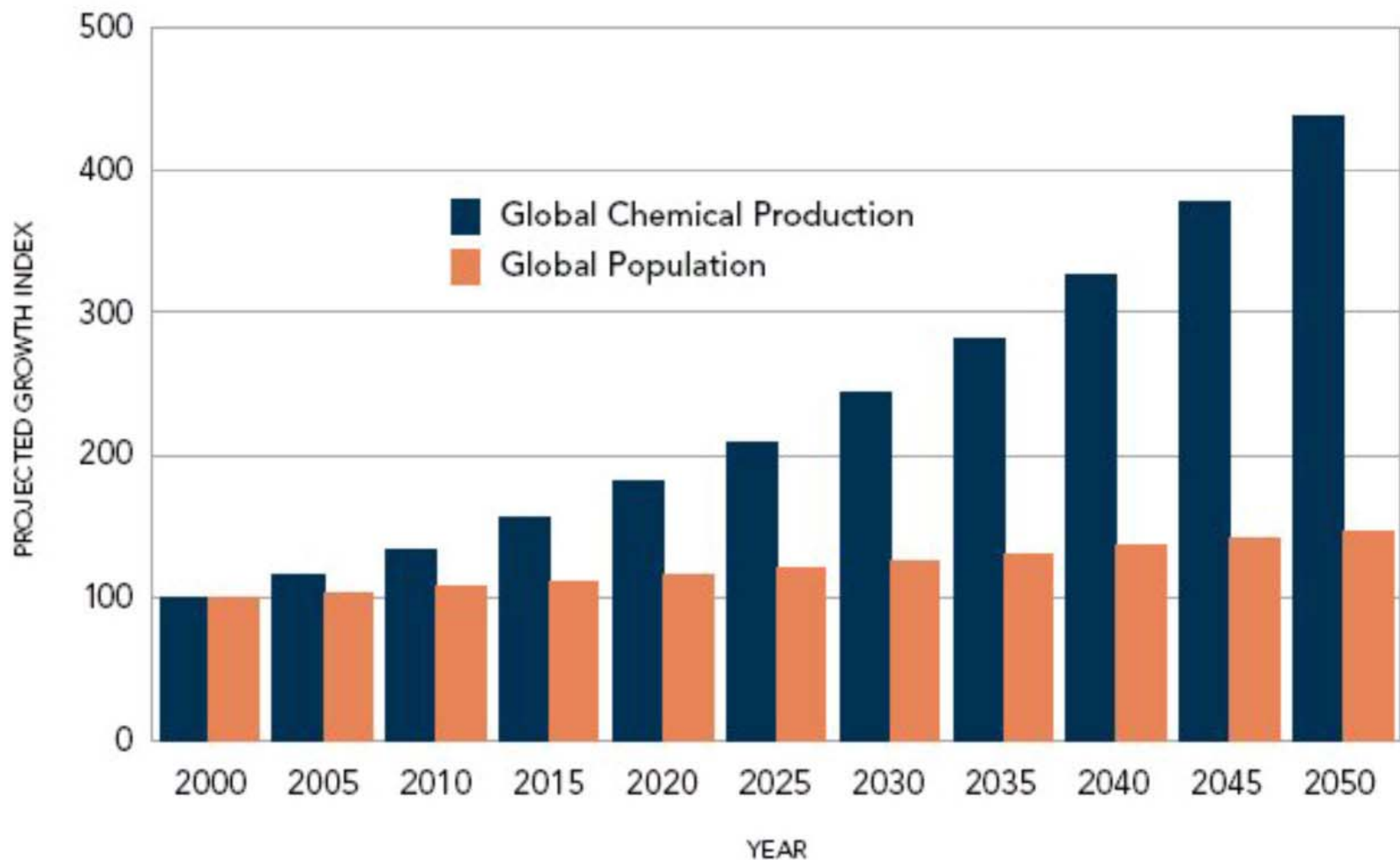
- Goal: Inspire innovation on specific chemicals of concern

Potential “Priority Chemicals” do not meet the Walmart Preferred Chemical Principles

- Goal set to address 20 priority chemicals over 2 years



Chemicals are Increasing



TSCA, the Dog that Didn't Even Bark



By the numbers:

- **62,000** chemicals grandfathered in when TSCA was passed in 1976
- Required testing on **<300** in 34 years
- **5** chemicals have been regulated in limited ways
- **19 years** since EPA last tried (and failed) to regulate a chemical: *asbestos*

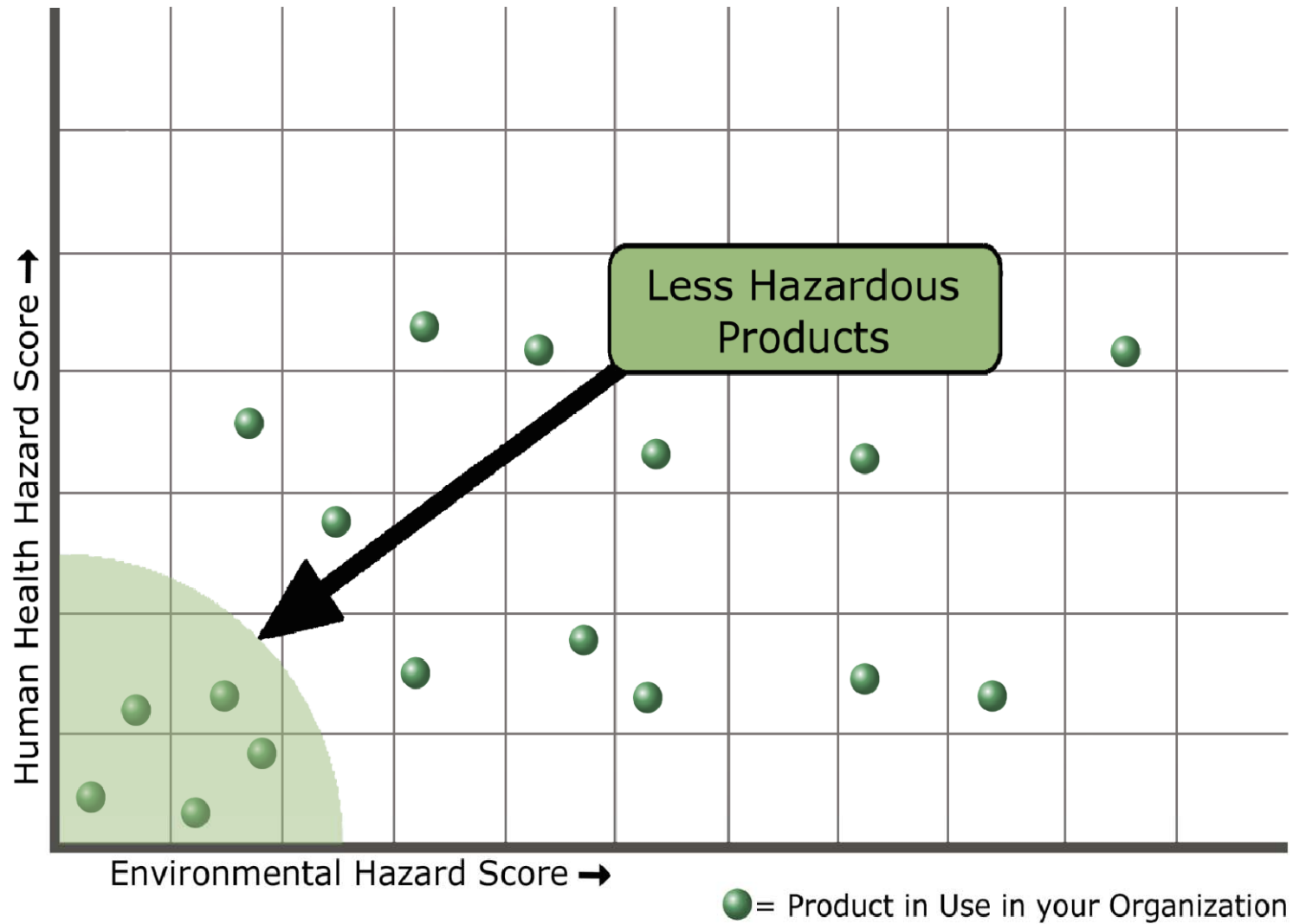




**Now
What?**



GOAL : Easy to Use Decision Support Tool



CIP SVN Subgroup Participants

- 3-M
- American Chemistry Council
- Clean Production Action
- Clorox
- Colgate Palmolive
- CropLife America
- Dow Chemical
- DuPont
- Environmental Defense Fund
- Exxon Mobil
- Henkel/Dial
- Johnson Diversey
- NRDC
- NSF
- Procter and Gamble
- RISE
- SC Johnson
- Scotts
- Unilever
- US EPA DfE Program
- Walmart



Guiding Philosophy

- Know what is in the products.
- Identify products with chemicals of concern and encourage suppliers to innovate
- Move toward “Known Goods”



User Requirements

- Buyer interface should be simple and clear
- Scores results
- Ranks results (visually compare scores)
- Tool should allow notes to be included

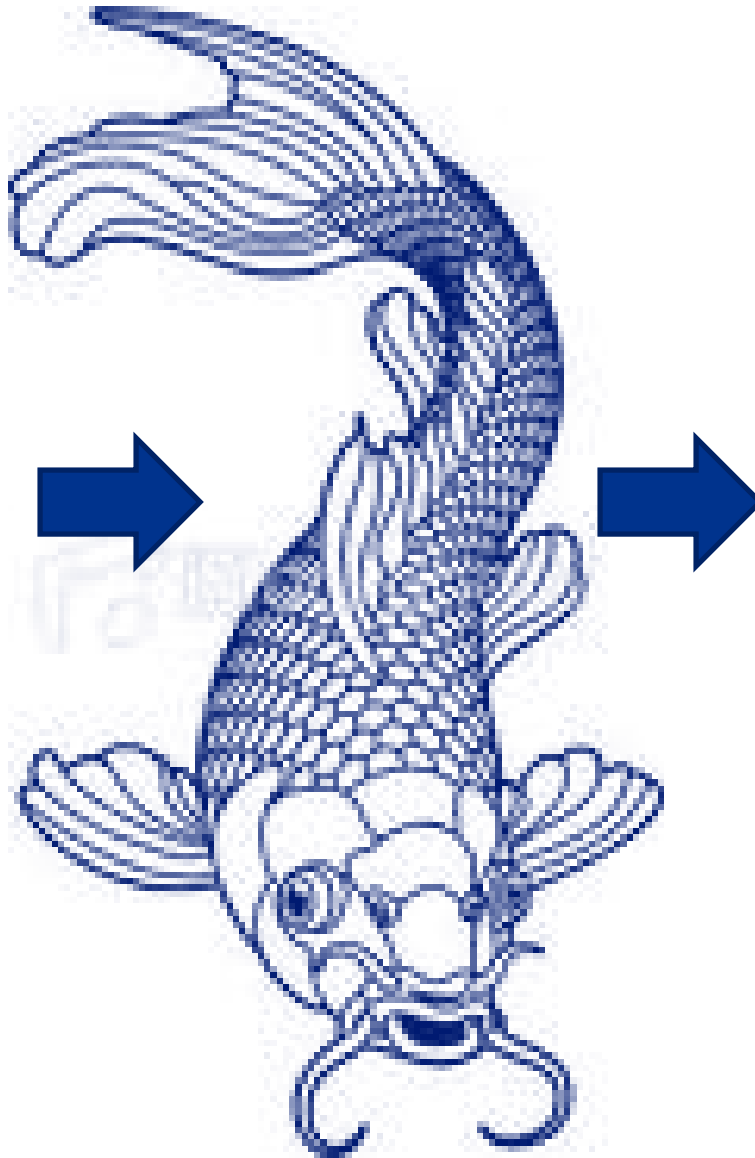


Business Requirements

- Compare like to like
- Protect information
- Use authoritative lists
- Focus on hazard use and end of life
- Design for Adaptation



Role of Third Parties



Data Requirements

INPUTS–

- Addresses attributes at multiple levels
 - ingredient
 - product
 - company (not now if at all)
- Builds on existing information in CARP
- Link products to its individual components and search using CAS numbers.

OUTPUTS–

- Screens a universe of lists
- Can add and/or delete/change lists
- Can weight different attributes (e.g, use of VOCs in paint; certain types of hazards in baby products) +++



GreenWERCS

Products displayed: 5
Administrator Mode
Logout
Back to Search

Highlights

Best Scored Product

Health: 0
Environment: 0

Worst Scored Product

Ant Bait #4
Health: 700
Environment: 437

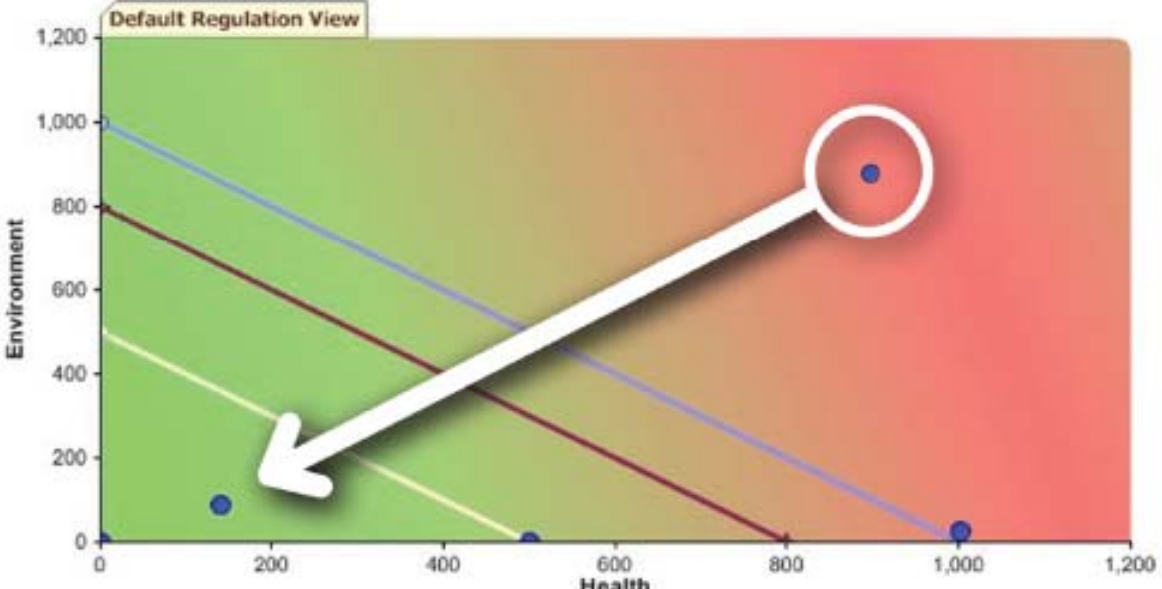
Categories

Environment ■

Health ■

Hazard Waste Disposal: ■

Default Regulation View



UPCs for this Product

1010101010000

Supplier Details

Acme Company
123 Jackson Avenue
517-789-6523
Mr. Bob White
312-456-1234
sales@acmecoco.com

Product Details Details

Scoring details for Ant Bait #4

Health

Endocrine Disruptors : 12
Reproductive Hazards : 125
Mutagenic Hazards : 125
Suspected Carcinogens : 188
Known Carcinogens : 250
Total: 700

What GreenWERCS Does

- Screens products against more than 3,500 known:
 - Persistent, bioaccumulative, and toxic substances (PBTs)
 - Carcinogens, mutagens or reproductive toxicants (CMRs)
 - Probable endocrine disrupters
 - Potential hazardous wastes
- Distinguishes “reds” from “yellows”
- Scores products
- Creates opportunity for informed conversation



What GreenWERCS Doesn't Do

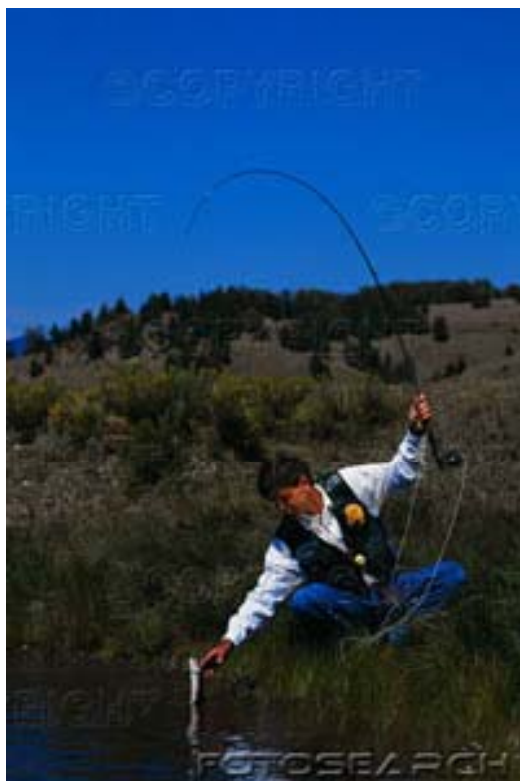
- Retailer sees category of concern, not specific chemicals
- Does not validate
- Does not tell a retailer how to get to “green”
- Does not tell a supplier how to innovate



GreenWERCS is available for retail



Strategic Choices for Getting to GREEN



Choose Certified Products



Apply Green Chemistry Principles

Questions?

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