The Guide to Safer Chemicals
Implementing the BizNGO Principles for Safer Chemicals

GC3 National Summit for Retailers

May 7, 2013

a project of Clean Production Action
Our mission is to design and deliver strategic solutions for green chemicals, sustainable materials and environmentally preferable products.
Healthy Business Strategies for Transforming the Toxic Chemical Economy
BizNGO Principles for Safer Chemicals

Endorsers include …

- American Sustainable Business Council
- Brooks Sports
- Construction Specialties, Inc.
- Dignity Health
- Forbo Flooring Systems
- Haworth
- HDR
- Hewlett-Packard Company
- Hospira, Inc.
- Kaiser Permanente
- Method
- Naturepedic
- Novation
- Perkins+Will
- Practice Greenhealth
- Premier, Inc.
- Seventh Generation
- Shaw Industries
- Staples, Inc.
- Whole Foods Market, Inc.

1. Know & Disclose
2. Assess & Avoid Hazards
3. Commit to Continuous Improvement
4. Support Policies & Standards
Know
All chemicals in supply chains & feedstock sources

Know
All chemicals in products

Know
All chemicals of high concern in products

Know
Some chemicals of high concern

Standardized Environmental Questions for Medical Products
Know all ingredients

PGH Standardized Qs - future consideration

Mind the Store – Haz 100+

- Latex
- PVC
- Mercury
- BPA
- Phthalates
- HFRs
- Prop 65 chemicals
Standardized Environmental Questions for Medical Products
Health Product Declaration

Clorox
Assess & Avoid
Specify safer alternatives

Assess & Avoid
Select & implement safer alternatives to chemicals of high concern

Assess & Avoid
Identify all chemicals of high concern

Assess & Avoid
Create and implement restricted substances list (RSL)

Benchmark 1
Avoid – Chemical of High Concern

Benchmark 2
Use but Search for Safer Substitutes

Benchmark 3
Use but Still Opportunity for Improvement

Benchmark 4
Prefer – Safer Chemical

Assess & Avoid Hazards
HP Uses GreenScreen™ to Choose Alternatives to Substances of Concern

• Select alternatives that won’t be restricted in the future
  – E.g., Low toxicity
• Helps articulate materials goals to suppliers
  – Not simply saying what HP doesn’t want
  – Defining what HP does want in its products
## Whole Foods Market Eco-Scale for Cleaning Products

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Red—Not for sale at Whole Foods</th>
<th>Orange</th>
<th>Yellow</th>
<th>Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparency</td>
<td>Fails any of the “Orange” criteria</td>
<td>Full disclosure of ingredients on packaging</td>
<td>Full disclosure of ingredients on packaging</td>
<td>Full disclosure of ingredients on packaging</td>
</tr>
<tr>
<td>Compliance</td>
<td>Third party verified</td>
<td>Third party verified</td>
<td>Third party verified</td>
<td>Third party verified</td>
</tr>
<tr>
<td>Ingredient hazards</td>
<td>No significant environmental or safety concerns</td>
<td>No moderate environmental or safety concerns</td>
<td>No moderate environmental or safety concerns</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde-donors</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Phosphates, chlorine, or synthetic colors</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Animal testing</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Natural fragrances</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Surfactants that have the potential to contain nitrosamines and other impurities</td>
<td>None</td>
<td>No DEA, MEA, or TEA</td>
<td>No DEA, MEA, or TEA</td>
<td></td>
</tr>
<tr>
<td>Synthetic, petroleum-derived thickeners from non-renewable sources</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Plant- and mineral-derived ingredients only</td>
<td>None</td>
<td>Yes</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Petroleum-derived ingredients</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Source: Whole Foods Market Eco-Scale Rating for Household Cleaning Products
<table>
<thead>
<tr>
<th>Summit</th>
<th>Know</th>
<th>Disclose</th>
<th>Assess &amp; Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All chemicals in supply chains &amp; feedstock sources</td>
<td>All chemicals in supply chains &amp; feedstock sources</td>
<td>Specify safer alternatives</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High Camp</th>
<th>Know</th>
<th>Disclose</th>
<th>Assess &amp; Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All chemicals in products</td>
<td>All chemicals in products</td>
<td>Select &amp; implement safer alternatives to chemicals of high concern</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base Camp</th>
<th>Know</th>
<th>Disclose</th>
<th>Assess &amp; Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All chemicals of high concern in products</td>
<td>Most chemicals in products</td>
<td>Identify all chemicals of high concern</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trailhead</th>
<th>Know</th>
<th>Disclose</th>
<th>Assess &amp; Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Some chemicals of high concern</td>
<td>Presence/absence of some chemicals of high concern</td>
<td>Create and implement restricted substances list (RSL)</td>
</tr>
</tbody>
</table>
**ROADMAP TO ZERO DISCHARGE OF HAZARDOUS CHEMICALS**

- **Summit**
  - **Know**
    - All chemicals in supply chains & feedstock sources
  - **Assess & Avoid**
    - Specify safer alternatives

- **High Camp**
  - **Know**
    - All chemicals in products
  - **Assess & Avoid**
    - Select & implement safer alternatives to chemicals of high concern

- **Base Camp**
  - **Know**
    - All chemicals of high concern in products
  - **Assess & Avoid**
    - Identify all chemicals of high concern

- **Trailhead**
  - **Know**
    - Some chemicals of high concern
  - **Assess & Avoid**
    - Create and implement restricted substances list (RSL)
Getting Started in Retail

Green Cleaning: Purchase 90 percent Green Seal or EcoLogo certified cleaning products in these four categories: carpet, window, all purpose, and bathroom.

DEHP/PVC Reduction: Eliminate DEHP/PVC from at least one product line.

Healthy Interiors: Ensure that 25 percent of the annual volume of freestanding furniture and medical furnishings, purchases based on cost, eliminate the intentional use of halogenated flame retardants, formaldehyde, perfluorinated compounds and PVC (also known as vinyl).

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** This includes exam tables, patient recliners, mattresses, foams, panel fabrics, cubicle curtains, window coverings, fabric upholstery, and built-in or modular casework.
Working with Suppliers -- RSLs

- **Know** – RSL Chemicals
  - Intentionally added
  - Contaminants
- **Assess**
  - Set RSL thresholds
- **Avoid**
  - No RSL chemicals (or below thresholds)
Working with Suppliers – Beyond RSLs

• Know – all chemicals in products/processes
• Assess
  – Evaluate whether chemicals of high concern in products/processes
  – Agree upon method for evaluating alternatives / identifying safer chemicals
• Prefer
  – Specify safer alternatives
Making Chemicals Management Easier

- Someone needs to know chemicals in products
- Need common criteria for chemicals of concern
- Need list of chemicals of concern
- Need common criteria for safer alternatives
- TOOLS & SYSTEMS make implementation easier
The Guide

• Is a reference document of best practices

• Enables
  – benchmarking tools & initiatives
  – measuring internal performance, identifying areas for improvement, and tracking progress

• Can be used
  – to create chemical management system
  – externally to explain and report on corporate performance and progress
Thank You!

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www.bizngo.org/guide.php