Chemical Footprint Project
2018 Results

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Speakers

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Questions?

- Post your question to the Questions pane in your GoToWebinar Control Panel

- Presentation and recording will be available at www.chemicalfootprint.org
Overview

• CFP Survey & 2018 Report Highlights
• Value for manufacturers
• Value for large scale purchasers
• Q&A
Clean Production Action

Together, we’re creating a safer and healthier future
Chemical Footprint Project (CFP)
IN THIS REPORT YOU WILL FIND:

2. KEY FINDINGS FROM THREE YEARS OF THE CFP SURVEY
4. GLOBAL HEALTH RISKS FROM HAZARDOUS CHEMICALS
5. CHEMICAL FINANCIAL RISKS: THE 3 R’s OF REGULATORY, REPUTATION, AND REDESIGN RISKS

CFP SIGNATORY PROFILES
7. INVESTMENT: THE SUSTAINABILITY GROUP AT LORING, WOLCOTT, & COOLIDGE
9. HEALTH CARE: VIZIENT, INC.

CFP RESPONDER PROFILES
13. MILLIKEN & COMPANY
15. HERMAN MILLER

HIGHLIGHTS FROM THE 2017 SURVEY
11. OVERALL RESULTS
12. MANAGEMENT STRATEGY
14. CHEMICAL INVENTORY
16. FOOTPRINT MEASUREMENT
17. DISCLOSURE & VERIFICATION
18. FORMULATED PRODUCTS, ARTICLES, & COMPANY SIZE
20. JOIN US ON THE CHEMICAL FOOTPRINT JOURNEY
Investors include ...

- Bank J Safra Sarasin
- BNP Paribas Investment Partners
- Boston Common Asset Management
- Calvert Research & Management
- Impax Asset Management
- Legal & General Investment Management
- Rhode Island Treasury
- The Sustainability Group of Loring, Wolcott & Coolidge
- Trillium Asset Management

Health Care & Retail includes ...

- CVS Health
- Walmart
- Dignity Health
- Kaiser Permanente
- Vizient
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Health Care & Retail includes: 
- CVS Health, Walmart, & Target
- Dignity Health, Kaiser Permanente, & Vizient
3R’s of “Chemical Risks”

- Redesign Risks
- Reputation Risks
- Regulatory Risks
Investors need “reliable, replicable, independent, and comparable data”

“The CFP provides a common framework for companies to calculate their chemical footprint”

“Vizient encourages its suppliers to participate in the CFP Survey as a way to measure their own progress toward comprehensive chemicals management.”

“it’s in a company’s best interest to use the CFP Survey as a tool to... provide meaningful disclosure to investors and the public”
CFP Survey:
20 Questions = 100 points
• **Apparel / Sporting Goods**: Burton, Levi Strauss & Co.
• **Building / Furnishings**: Construction Specialties, Herman Miller, Humanscale, Kimball Hospitality, Milliken, Naturepedic, Nora Systems
• **Cleaning / Personal Care**: Beautycounter, California Baby, Ecolab, GOJO Industries, RB, Sealed Air Corp / Diversey, Seventh Generation
• **Medical devices/supplies**: BD, Case Medical, J&J
• **Technology**: HP Inc., Seagate Technology
• **Retail**: Walmart
• **Toys**: Radio Flyer
Companies selling formulated products are greater % of responders:

- 21% in 2015
- 63% in 2017
Management Strategy Improvements

2015: 37%
2016: 52%
2017: 73%

2015: 42%
2016: 45%
2017: 67%
Milliken & Company – “We are committed to understanding 100% of the chemical ingredients used in the materials we select”

Full Chemical Ingredient info up 17%
CFP Survey, 2015-2017: Chemical Inventory, Full Chemical Ingredient Data, percent of companies and the percent of products for which they collect full chemical ingredient information, question 14

- 2015: 46% 38%
- 2016: 63%
- 2017: 17% 13% 8%

percent of products with full ingredient information
“Chemical Footprint”
the total mass of chemicals of high concern (CoHCs) in:
products, manufacturing operations, supply chains, and packaging.

Chemical of High Concern (CoHC):
- carcinogen, mutagen, or reproductive toxicant (CMR),
- persistent, bioaccumulative and toxic substance (PBT),
- any other chemical for which there is scientific evidence of probable serious effects to human health or the environment that give rise to an equivalent level of concern, or
- a chemical whose breakdown products result in a CoHC that meets any of the above criteria
Herman Miller – “We believe that safe chemistry is a requirement for any sustainable product”
Footprint Measurement (F2)

- **2015**
  - 17% (SVHCs, none)
  - 4% (SCHCs, count)
  - 8% (SCHCs, mass)
  - 71% (Did not calculate)

- **2016**
  - 38% (SVHCs, none)
  - 21% (SCHCs, count)
  - 13% (SCHCs, mass)
  - 17% (CoHCs, none)

- **2017**
  - 25% (SVHCs, none)
  - 29% (SCHCs, count)
  - 8% (SCHCs, mass)
  - 13% (CoHCs, none)
Companies publicly sharing answers +/- or scores:
Beautycounter, BD, Case Medical, GOJO, Humanscale, LS&Co, Milliken, Naturepedic, Radio Flyer, Seagate Technology, & Seventh Generation
Value of CFP Survey

- Common language
- Quantitative metric to measure progress
- Gap analysis
- Independent, comparative, & replicable
- Aligns with SDGs – 3, 6, & 12
Sustainability

CPA Chemical Footprint Project

100+ Year Commitment
Our Values

A strong foundation of safety forms an integral part of who we are.

Milliken has been recognized as one of the Safest Companies in America 3 Consecutive Times by EHS Today®

Milliken is the 1st 3 time winner resulting in an inaugural induction into America’s Safest Companies Hall of Fame.

Recognized for 15 consecutive years.
Our Values

A strong foundation of quality, ethics & environmental responsibility forms an integral part of who we are.

Milliken has been recognized as one of the World’s Most Ethical Companies by Ethisphere™ Magazine every year since the first list in 2007. Now 12 consecutive years.
Milliken Sustainability
100+ year commitment

1900 - Milliken’s first recycling policy documented
1912 - Milliken’s first hydroelectric plant opens using renewable energy
1947 - Milliken Research Corporation established
1962 - Milliken builds waste water treatment plants before regulatory agencies are established
1976 - Milliken establishes formal worldwide environmental management system
1985 - Milliken verified as first carbon negative manufacture
1986 - Milliken introduces PVC-Free Carpet in NA- removing 850 million tons from production cycle
1993 - Milliken became founding member of USGBC
1995 - Milliken became founding member of European Assoc. Of Envir. Friendly Carpet Manufacture
1997 - Milliken achieves ISO 14001 certification at our European Carpet plant
1999 - Milliken achieves ISO 14001 certification of all North American manufacturing plants
2001 - Milliken achieves first BRE LCA profile for soft floor covering
2002 - Milliken becomes founding member of CARE, adopts “No Carpet to Landfill” policy
2005 - Milliken becomes first carpet manufacture to utilize methane from landfill
2008 - Milliken becomes founding member of Carpet Recycling UK
2011 - Milliken Utilizes industry first 100% Recycled Nylon
2013 - Milliken publishes its first Environmental Product Declarations
2014 - Milliken publishes its first product Transparency Labels through Living Building Challenge
2015 - Milliken publishes its first Global Sustainability Report
2017 - Milliken became founding member of the WELL Living Lab
A Holistic Approach to Sustainability
(Triple Bottom Line)

- People (Ethics, Safety, Wellbeing)
- Purpose (Environmental, Health, and Safety)
- Performance (Products and Services)

Sustainability
• Sustainability initiatives help protect the health of those in a space

• For example:
  – Indoor Air Quality
    > Indoor air pollutants are 2x to 5x higher than the outdoor environment
  – No Red List chemicals
    > Materials that pose hazardous threats to human health
The Importance of Sustainable Design

• Sustainability initiatives help protect the health of those using a product

• Milliken Results of the CFP
  • 35 chemicals disclosed
  • 25 chemicals @ 95%

• Optimization of ingredients is the key
  > Milliken’s CFP Approach:
  > Treat BM-1, LT-P1, and LT-UNKs as:
    > Materials that pose hazardous threats to human health
    > Future “Red List” chemicals or regulated chemicals

<table>
<thead>
<tr>
<th>RN</th>
<th>Chemical Name</th>
<th>Overall Score</th>
<th>CFP list</th>
</tr>
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<tbody>
<tr>
<td>1309-64-4</td>
<td>Antimony oxide (Antimony trioxide)</td>
<td>BM - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>BM - 2</td>
<td>TRUE</td>
</tr>
<tr>
<td>107-21-1</td>
<td>Ethylene glycol</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>111-42-2</td>
<td>Diethanolamine</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>123-91-1</td>
<td>1,4-Dioxane</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>1317-70-0</td>
<td>Titanium dioxide</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>15571-58-1</td>
<td>2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde (gas)</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>598-55-0</td>
<td>Methyl carbamate</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64742-46-7</td>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64742-53-6</td>
<td>Distillates (petroleum), hydrotreated light naphthenic</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64742-54-7</td>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
<tr>
<td>64742-63-8</td>
<td>Distillates (petroleum), solvent-dewaxed heavy naphthenic</td>
<td>LT - 1</td>
<td>TRUE</td>
</tr>
</tbody>
</table>
Our Values: A Holistic Approach to Sustainability

**Worlds First:**
- 3rd Party Verified
- Red List Free

Declare.
Our Values: A Holistic Approach to Sustainability

Global 3rd Party Verified Red List Free Declare

"Before" Label

Living Building Challenge Imperative 11
- Requires manufacturers disclose product ingredients at 100 ppm to ensure that they are free of Red List chemicals and materials.
- A complete list of ingredients ensures that project teams are specifying materials that are Red List Free or comply with a Red List exception.

Living Building Challenge Imperative 14
- Manufacturer and raw material location help teams source local products that support regional economies.

Modular Carpet Tile with Solution Dyed Nylon 6,6 Fiber

Ingredients:
- Backing: Aluminosilicates, Bitumen, Polyethylene Terephthalate, Polyethylene Terephthalate, Calcium Oxide, Polypropylene, Styrene Butadiene Styrene Chloride, SBR, Styrene-Butadiene Styrene Chloride
- Polymer, Styrene-Butadiene Copolymer
- Fiberglass, Hydrocarbon, PET, Polymers, Hydrocarbon, Potassium Oxide, Zirconium Oxide, Sodium Silicate, Polyethylene Oxide, Sodium Silicate, Stearic Acid, Face Fiber: Polyethylene, Polyethylene Oxide, Zirconium Oxide, Sodium Silicate, Stearic Acid, Face Fiber: Polyethylene Oxide, Polyethylene Oxide, Potassium Oxide, Sodium Silicate, Stearic Acid


decareproducts.com
Thank You!!
Environmentally Preferred Sourcing

Cristina Indiveri, MS
Senior Director, Environmentally Preferred Sourcing
Vizient’s EPS Program positively contributes to human and environmental health by enabling responsible sourcing decisions

Vizient offers the broadest, most cost-effective portfolio of environmentally preferred products in the industry
Effective October 2017, completion of EP attributes requested in the RFP became an element of the non-financial criteria in all bids. In select bids, additional points will be considered when the supplier answers in the positive for attributes.

- EU RoHS Directive
- Bisphenol A (BPA)
- Polyvinyl Chloride (PVC)
- Bromine A & Chlorine Based Compounds
- Phthalates (including DEHP)
- Reuse - Product
- Antimicrobial/ Antibacterial agents
- Persistent, Bioaccumulative and Toxic Chemicals (PBTs)
- Flame Retardants
- Metals
- Perfluorinated Chemicals (PFCs)
- Does Not Create Hazardous Waste Product
- 10% or More Post Consumer Recycled Content - Product
- Recyclability - Product
- Recycled Content – Primary Packaging
- Product Packaged without Polystyrene
- Forest Stewardship Council
- Consumer Friendly Recycling Labels
- Mercury
- Natural Rubber Latex
- Chemical Inventory
- Prop 65 Chemicals
- Chemical Abstracts for Prop 65 Chemicals
Environmental Advisory Council

Purpose
Advise and guide Vizient’s environmentally preferred sourcing strategy with a focus on identifying, vetting and encouraging the purchase of products and services that reduce harmful environmental and human health impacts in health care, while maintaining quality and affordability.

Mission
Positively contribute to human and environmental health of the community through the adoption and advancement of environmentally preferred products and services, creating demand and lowering costs.

Membership
Made up of 20 EPP experts representing members from across the country
Over 200+ years of sustainability experience

Strategy
Guides Vizient’s strategic direction
Reviews Vizient’s bid calendar and provides direction to other contracting councils establishing bid scorecard
• Weighting of non-financial criteria (EPP considerations)
• Requirements of acceptability
Vizient’s New Catalog Capabilities
Leading the GPO Industry

• Vizient persuaded HGPII to create new EPS questions in 2018 GPO Public Accountability Questionnaire

• Call to utilize one standard set of environmentally preferred attributes for medical/surgical products across the industry
  – Vizient first adopted Kaiser Permanente’s environmentally preferred attributes
  – Premier then instituted the same environmental attributes
  – Numerous GPO’s such as ROi, HPS and HealthTrust requested attributes from Vizient

• Next steps: collaborate with HGPII working group to facilitate adoption of attributes and create transparency within industry
Partnership with Chemical Footprint Project

Transparency

• Vizient encourages suppliers to follow the path of selecting safer alternatives and reduce their use of chemicals of high concern
• As the largest group purchasing organization, we have the opportunity to share our members’ expectations and influence suppliers to remove hazardous chemicals of concern
• Tracking, measuring and identifying chemicals of high concern is essential for transparency with members and growth towards safer alternatives
• The members we serve expect safe and healthy products
Cristina Indiveri, Senior Director, Environmentally Preferred Sourcing
Cristina.Indiveri@vizientinc.com
CFP Survey & Annual Report – Timeline

Annual Report
• 2018 report: September 2018
• 2019 report: June 2019

CFP Survey Guidance
• Release: November 2018

CFP Online Survey
• Opens: January 1, 2019
• Closes: March 31, 2019
Questions?

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