EXPLORE OUR NEW OFFERING!

WEBINAR

WNY CLEAN PRODUCTION LEADERS

DECEMBER 17th, 1 PM
HOW TO POST QUESTIONS?
Kris Ann Bolt
Environmental Health & Safety Officer
Harmac Medical Products & SBR President

Cheri Peele
Senior Research Associate
Clean Production Action

Sandy Kerns
Manager
Material Safety & Compliance
Xerox Corporation

Charles Ruffing
Director
NYS Pollution Prevention Institute
WELCOME!

A LEAN CHEMICAL MANAGEMENT PROGRAM FOR LOCAL BUSINESSES LEADING THE WAY TO CLEANER AIR & WATERWAYS

WNY CLEAN PRODUCTION LEADERS

Is your company interested in knowing more about the chemicals used in manufacturing and contained in your products? Look no further!

TAKE ADVANTAGE OF ONE-ON-ONE EXPERT GUIDED SUPPORT FOR CALCULATING YOUR CHEMICAL FOOTPRINT

This program is supported by EPA and the resources are available at no cost to businesses of all sizes across Western New York.
WNY SUSTAINABLE BUSINESS ROUNDTABLE

• Invest
• Connect
• Learn
• Recognize
WNY SUSTAINABLE BUSINESS ROUNDTABLE

SBR offers:

- Educational workshops
- Networking and tours
- Peer to peer assistance
- Recognition opportunities
- Etc
WNY CLEAN PRODUCTION LEADERS

A LEAN CHEMICAL MANAGEMENT PROGRAM FOR LOCAL BUSINESSES LEADING THE WAY TO CLEANER AIR & WATERWAYS
OUR PARTNERS

WNY Sustainable Business Roundtable has partnered with the best in class:

CLEAN PRODUCTION ACTION

New York State Pollution Prevention Institute

niagarashare

CORE
THIS IS FOR YOU!

This powerful support program targets all small and medium-sized manufacturers & service providers in Western New York.
WHY ACT NOW?

• Reap benefits from simplicity and cost reductions

• Get more business as chemical transparency gets increasingly important throughout supply chains

• Comply with regulations at home and overseas

• Get tools for communicating issues of chemical concerns to your customers, suppliers and regulatory bodies
WHAT YOU WILL LEARN TODAY

• How to best take advantage of the Chemical Footprint Survey
• How to access direct technical assistance
• How Xerox has approached chemical reduction
• How to get involved and get recognition opportunities showcasing best local practices
Cheri Peele, Senior Research Associate
Clean Production Action
Clean Production Action
Solutions for a safer & healthier tomorrow
CFP Survey:
19 Questions = 100 points
Value of CFP

- Common language
- Quantitative metric to measure progress
- Gap analysis
- Alignment with leading business practices, investors & health care
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, Staples, Walmart, & Target
- Dignity Health, Kaiser Permanente, & Vizient
Participants in 2019 Survey

- **Apparel / Textiles**: Levi Strauss & Co., Standard Textile
- **Building / Furnishings**: Herman Miller, Milliken, Naturepedic, Nora Systems, Steelcase
- **Cleaning / Personal Care**: Beautycounter, Clorox, Diversey, Ecolab, GOJO, Kimberly-Clark Corporation, Meliora Cleaning Products, RB, Seventh Generation
- **Medical devices/supplies**: BD, Case Medical, J&J, Philips, Steris
- **Technology**: HP Inc., Xerox
- **Retail**: Dollar Tree, Target, Walmart
- **Toys**: Hasbro, Radio Flyer

3 additional companies chose to remain anonymous
MANAGEMENT STRATEGY INDICATORS (20 points)

**Corporate Chemicals Policy**
M1. Creating a policy that aims to avoid chemicals of high concern (CoHCs) and prefers safer alternatives

**Corporate Integration and Accountability**
M2. Integrating chemicals policies into business strategy
M4. Ensuring accountability for implementation of chemicals policies

**External advocacy**
M3. Advocating for initiatives that promote the use of safer chemicals
Chemical of High Concern (CoHC):

- carcinogen, mutagen, or reproductive toxicant (CMR), or
- persistent, bioaccumulative and toxic substance (PBT), or
- 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

The criteria for a CFP CoHC align with GHS criteria and GreenScreen Benchmark 1 criteria.
CFP Chemicals of High Concern Reference List

Authoritative Lists
developed by:
- California Environmental Protection Agency
- European Chemicals Agency
- International Agency for Research on Cancer
- MaK Commission of Germany
- OSPAR Convention
- UN Environment Program
- US Centers for Disease Control
- US Environmental Protection Agency
- US National Institutes of Health

CFP CoHC Reference List
Roughly 2,200 chemicals & chemical groups identified on lists developed by authoritative bodies as meeting CoHC criteria

Consistent with GreenScreen List Translator-1 (LT-1) chemicals
Safer Alternative

A chemical, material, product, process or technology that is less hazardous for humans and the environment than the existing approach.
## Chemicals Policy

<table>
<thead>
<tr>
<th>Scope</th>
<th>Reduce CoHCs</th>
<th>Preference for Safer Alternatives</th>
<th>Publicly Available (provide web link)</th>
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<tbody>
<tr>
<td>Products</td>
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<td>Packaging</td>
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</tbody>
</table>
Chemical Inventory
Chemical Inventory

Absence of chemicals

Presence of chemicals

Data management
Absence of Chemicals: Scope of Restricted Substances List (RSL)

- Most stringent legal restrictions
- Market-specific legal restrictions
- Voluntary restrictions

Manufacturing RSL

Market
1
2
3
Presence of Chemicals

- Watch List
- Full chemical ingredient information
  - Request or require
  - % of products
FOOTPRINT MEASUREMENT INDICATORS (30 points)

**Measurement**
F1. Setting goals for measuring CoHCs and measuring progress
F2. Measuring baseline chemical footprint
F3. Measuring reduced use of CoHCs

**Safer alternatives**
F4. Assessing the hazards of chemicals
F5. Encouraging the use of safer alternatives
Chemical Footprint:

the total mass of chemicals of high concern (CoHCs) in products sold by a company, used in its manufacturing operations, its facilities, and by its suppliers, and contained in packaging.

The CFP Survey currently only asks companies to calculate the chemical footprint of their product portfolio.

Food producers will be asked in 2020 to calculate their packaging chemical footprint.
DISCLOSURE & VERIFICATION INDICATORS (20 points)

Public Disclosure
D1. Chemicals in products (8 points)
D2. CFP Survey responses (3 points)
D3. CFP Survey score (5 points)

Verification
D4. Third party verification of responses (4 points)
D2, D3: Public disclosure of CFP Participation

- **D2**: 3 points
- **D3**: 5 points

- Anonymously Participate
- Acknowledge Participation
- Share Survey Responses & Links to Public Documents
- Share Survey Score
Schedule

- December 2019: Guidance Document released
- Dec 10 - 11, 2019: BizNGO Annual Meeting, Boston
- Jan – Feb, 2020: CFP webinars
- Feb 2, 2020: Survey opens
- April 30, 2020: Survey closes
- Q4 2020: Scores reported & Annual Report released
Questions:

Cheri Peele
Senior Research Associate
Clean Production Action
cheri@cleanproduction.org
Sandy Kerns, Manager
Material Safety & Compliance

Xerox Corporation
Chemical Management
Beyond Compliance
The product that is in the hands of the customer will not be hazardous to the user.
Xerox Environment, Health and Safety
Supplier Requirements: Chemical Bans/Restrictions and Part Marking

- Defines Xerox requirements for suppliers of parts or materials for use in equipment, spare parts, accessories or packaging
- Provides detailed lists of banned, restricted and reportable substances

Environment, Health and Safety Requirements for Materials

- Outlines the global regulations applicable to Xerox consumable materials
- Defines Xerox requirements for consumable materials taking into consideration the environment in which they will be used and the training level of the user

Environment, Health and Safety Requirements for Packaging

- Specifies Xerox requirements packaging products, parts or materials shipped to any manufacturing site, distribution center or customer
- Packaging that complies with this standard will be capable of being recycled
Type of restriction

Formula based
Prohibits the final mixture from being classified as
- Acute health toxin
- Irritant
- Aquatic toxin

Ingredient based
Bans ingredients classified as
- Sensitizers
- CMR’s*
- Neurotoxins
- Single organ toxins

*Carcinogens, mutagens, reproductive toxins
Managing New Data & Changing Regulations

- Studies required for REACH registration dossiers or requested by ECHA for supplemental information
- Vendor changes formulation and new subcomponent carries unacceptable toxicity
- Material newly listed as SVHC or newly restricted/banned
- Material with a high degree of probability of future restrictions
Collaborating with the Business Team

Make the business case
Take the “problem solving” approach
Engender trust
Align with company core values and high level goals
Build EHS requirements into every product launch
Emerging Considerations for Material Safety – Staying Ahead of the Curve

Evolving Market Expectations
New, unique and innovative technologies

Nanomaterials
Emerging concern regarding the heretofore unrecognized potential hazard of exposure to nanomaterials

Machine Emissions
Characterizing machine emissions
Understanding customer exposure
Charles Ruffing, Director
NYS Pollution Prevention Institute
NYSP2I – a resource for WNY Clean Production Leaders

Charles J. Ruffing, Ph.D.
Director, New York State Pollution Prevention Institute
New York State Pollution Prevention Institute

- HQ at RIT
- Established in 2008
- $3.9M in annual NYS funding administered through the NYS Department of Environmental Conservation

Focus areas include:
- Sustainable Manufacturing Assessments
- Supply Chain Sustainability
- Technology Commercialization
- Food Waste Diversion
- Outreach & Education
- Research & Development
- Emerging Contaminants
Assistance for NYS Companies, Municipalities & Non-Profits

- Must be NY-based
- Typical project cost range is $15-$50k
- NYSP2I funding offsets most of the project cost to the organization
  - Expenses are non-capital expenses
  - RIT’s engineering, technical and project management services
- Post-project reporting
- Typical project takes about 2-6 months
NYSP2I supports the Chemical Footprint Project

1. Assist in developing a chemical management policy
2. Help fill out the CFP survey
3. Work to reduce chemical footprint

Idea
Let’s reduce our use of chemicals of high concern

MANAGE
INVENTORY
MEASURE
DISCLOSE
Thank You

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THE PROGRAM TIMELINE

Spring 2020/2021
Management Strategy –
  Chemical inventory –
  Footprint Measurement –
  Voluntary Disclosure

Summer/fall 2020- Spring 2021
Identify a chemical reduction challenge-
Create specific goals and objectives –
Define a roadmap –
Measure success

Ongoing:
Get recognized for your innovative solutions & reap the corporate benefits!
WNY Sustainable Business Roundtable

2020 Recognition Program Application

Invest - Connect - Learn - Recognize
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JOIN OUR PROGRAM!

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MORE QUESTIONS? READY TO SIGN UP?

CONTACT SBR’S COORDINATOR ASA GUILAMO
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WWW.WNYSUSTAINABLEBUSINESS.ORG
THANK YOU FOR LISTENING!

WNY CLEAN PRODUCTION LEADERS WEBINAR