GreenScreen Certified™ Standard for Furniture & Fabrics v1.1
WEBINAR
MARCH 2022
Clean Production Action – solutions for a safer & healthier tomorrow
Webinar Questions

Post your question to the Q&A section of your Zoom Control Panel.

Presentation and recording will be available at greenscreenchemicals.org.
Speakers

Shari Franjevic  
GreenScreen Program Manager  
Clean Production Action

Joel Sigler  
Director, National Environmental Health and Safety  
Kaiser Permanente

Betsy Phillips  
Director of Strategic Partnerships  
Maharam

Heather Covert  
Sustainability Manager  
Glen Raven
Outline

1. GreenScreen Certified™ Furniture & Fabric – what’s new?
2. Value to Health Care Providers
3. Value to Manufacturers
4. Q&A
GreenScreen Certified™ Standard
for Furniture & Fabrics v1.1

SHARI FRANJEVIC
GREENSCREEN PROGRAM MANAGER
SHARI@CLEANPRODUCTION.ORG
Material Health Matters

High levels of toxic flame retardant chemicals found in dust inside college classrooms
by Silent Spring Institute

[Image of a classroom with desks and chairs]

[Credit: CC0 Public Domain]


Your furniture may contain harmful chemicals

New research finds that children living in homes with vinyl flooring or sofas that contain flame retardants have traces of potentially harmful toxins in their urine or blood.

[Image of a living room with a woman and a child]

[Credit: Silent Spring Institute]

https://www.medicalnewstoday.com/articles/324511
PFAS: Per- and Polyfluroalkyl Substances

Carbon-fluorine bond is strongest in organic chemistry
Why are PFAS Such a Big Deal?

• Do not break down in the environment

• Can move through soils and contaminate drinking water sources

• Build up in fish, wildlife, and our bodies

• Health concerns at low exposure levels
  – pregnancy-induced hypertension
  – liver damage
  – increased cholesterol
  – thyroid disease
  – immune system harm
GreenScreen Certified for Furniture & Fabrics

Technical Peer Reviewers

Alex Misna, Technical Services Manager, Kimball International
Anne McManus, Senior Sustainability Engineer, Haworth
Betsy Phillips, Director of Strategic Partnerships, Maharam
Elizabeth Eldridge, Director of Sustainable Sourcing, Kaiser Permanente
Jane Abernethy, Chief Sustainability Officer, Humanscale
Jennifer Mason MacDaniel, Principal Interior Designer, Kaiser Permanente
Joel Sigler, Director, National Environmental, Health & Safety, Kaiser Permanente

Judy Levin, Pollution Prevention Director, Center for Environmental Health
Kelsey Balka, Design for Environment Engineer, Herman Miller
Luke Zhou, Lead Sustainable Materials Specialist, Humanscale
Veena Singla, Senior Scientist, Natural Resources Defense Council
William Paddock, Managing Director, WAP Sustainability
Yoav Elny, Director, Environmentally Preferred Purchasing, Vizient
Simplifying the Complexity of Chemical Hazard

To support informed, proactive, and precautionary decision-making

Chemicals

Products
GreenScreen: Globally Recognized & Used
Why GreenScreen Certified?

- Independent, non-profit organization
- Comprehensive and detailed evaluation
- Easy to understand accreditation
- Avoids regrettable substitutes
- Creates a roadmap
Facilitates Communication

Purchasers & Users

Manufacturers
All Fabrics Verified PFAS-free

1. Three samples/lots tested at a commercial analytical laboratory
2. Testing for all PFAS by measuring total fluorine
3. < 100 ppm total fluorine
4. Ongoing testing required for shared processes
Disclosure under Confidentiality

All **materials** present in the product at any level must be disclosed under confidentiality.

E.g., polypropylene, steel, nylon fabric, adhesive

All **chemicals** present in all materials must be disclosed – requirements depend on certification level
Chemicals Disclosed

List of Chemicals
≥ 100 ppm in homogeneous material

Supplier Declaration
Compliance with Restricted Substances List

Gold+
Gold
Silver+
Silver
Bronze+
Bronze
Prohibits Chemical Classes of Concern

- Per- and Polyfluoroalkyl Substances (PFAS)
- Bisphenols
- Ortho-phthalates
- Flame retardants (non-electronics)
- Antimicrobials
- Specific metals and their compounds
- Polyvinyl chloride (PVC)
- Specified Authoritative Government Lists
Avoids Chemicals of High Concern

- **CMRs** =
  - Carcinogens,
  - Mutagens, or
  - Reproductive / Developmental Toxicants

- **PBTs** =
  - Persistent, and
  - Bioaccumulative, and
  - Toxic

- **Equivalent Concern** =
  - Endocrine Disruptors
Chemicals Assessed

- Gold+
- Gold
- Silver+
- Silver
- Bronze+
- Bronze
Other Considerations

1. Sustainability Requirements
   - Indoor Air Quality (VOCs), Sustainably Sourced Wood, Waste & Recyclability
   - Aligned with Kaiser Permanente Environmentally Preferable Purchasing Standard

2. Material Specific Considerations
   - Pragmatic criteria to address specific needs and constraints
   - Minor Fasteners, Undefined Post-consumer Recycled Content (PCR), Electronic Components, Polytetrafluoroethylene (PTFE) in Powder Coats, Metal Parts e.g., metal alloys, Form Specific Hazards e.g., carbon black
List of GreenScreen Certified™ Products

https://www.greenscreenchemicals.org/certified/products/category/furniture-fabrics/

<table>
<thead>
<tr>
<th>Company</th>
<th>Product Type</th>
<th>Product</th>
<th>Level</th>
<th>Version &amp; Certificate#</th>
<th>Expires</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herman Miller Inc.</td>
<td>Furniture &amp; Fabrics</td>
<td>Tu® Metal Pedestal</td>
<td>Bronze</td>
<td>v1.0 #20201012</td>
<td>2025-09-30</td>
<td>W-Pull Mobile, LW110.20BFSRSS8QKC4MH1 Herman Miller Inc.</td>
</tr>
<tr>
<td>Glen Raven Inc</td>
<td>Furniture &amp; Fabrics</td>
<td>Sunbrella with Assure - specified patterns (see product codes in</td>
<td>Bronze</td>
<td>v1.1 #20221001</td>
<td>2027-07-31</td>
<td>FF 87009-001 to FF 87009-008 Glen Raven, Inc.</td>
</tr>
<tr>
<td>Maharam</td>
<td>Furniture &amp; Fabrics</td>
<td>Arcade</td>
<td>Bronze</td>
<td>v1.1 #20221003</td>
<td>2027-07-31</td>
<td>486447/001 to 486447/005 Maharam</td>
</tr>
</tbody>
</table>
Steps to Certification

1. Pre-Registration
2. Registration
3. Application
4. Evaluation
5. Certification

https://www.greenscreenchemicals.org/certified/get-certified
GreenScreen Certified™ for Furniture & Fabrics

1. Verifies claims of no PFAS and use of preferred chemistry
2. Builds upon gold standard GreenScreen tools
3. Meets Kaiser Permanente’s Environmentally Preferable Purchasing
4. Restricts classes of chemicals of concern
5. Enables use of Health Product Declaration (HPD) Open Standard
6. Aligns with US Green Building Council’s LEED standard
7. Provides clear steps on journey to increasingly preferable products
THANK YOU!

Slides from the webinar will be posted on the website.

Contact Clean Production Action:
Shari Franjevic
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certifications@cleanproduction.org
https://www.greenscreenchemicals.org/

Learn More
https://www.greenscreenchemicals.org/certified/furniture-fabrics
Kaiser Permanente
Sustainable Sourcing for
Furniture & Fabric

Joel Sigler, CSP
National Environmental Program Leader
March 23, 2022
About Kaiser Permanente

Kaiser Permanente is one of the nation’s largest not-for-profit health plans, serving 12.5 million members. At Kaiser Permanente, physicians are responsible for medical decisions. The Permanente Medical Groups, which provide care for Kaiser Permanente members, continuously develop and refine medical practices to help ensure that care is delivered in the most efficient and effective manner possible. In 2020, Kaiser Permanente invested $3.6 billion in its communities.

- 12.5 Million Members
- 39 Hospitals
- 216,000 Employees
- 23,597 Physicians
- 8 Markets
- 727 MOBs
- Founded 1945
- 63,847 Nurses
Environment and Health: Why we Care

- Where we live, the places we work and the air we breathe profoundly impact our health.
- Now more than ever, it’s clear that Kaiser Permanente’s has a responsibility to address how climate changes health and mitigate future impacts.
- The health disparities exacerbated by COVID-19 have further underscored that protecting the health of our planet and its people can no longer be treated as separate efforts.
- Creating a healthier, more sustainable path forward requires us to address these inseparable issues as one.
Safer Products Goal

• Reduce and eliminate chemicals of concern
• Reduce health risks to our members and the community
• Reduce compliance risks

Performance and other business criteria must continue to be met!

Safer Products:
KP will increase its purchase of products and materials meeting environmental standards to 50% by year 2025
Progression of Furniture and Fabric EPP Criteria at Kaiser Permanente

- **Targeted Chemicals**
  - (e.g., PVC, flame retardants, PFAS)

- **KP EPP Standard for Furnishings and Fabrics**

- **3rd Party Certification**
  - (Greenscreen)
Environmental Preferable Purchasing Challenges

- Burden on purchaser to determine if a product is "safe"
- Availability of information from supplier
- Proprietary information concerns
- Data collection and management
- Evaluating supplier responses
- Validation of supplier information
Third Party Certification

KP seeks to identify and utilize third party certifications to help address EPP challenges

Examples:

- Green Seal (GS 37 for cleaning products)
- EPEAT Registry (Computers, Copiers)
- GreenScreen Certified (Furniture, Fabric)
Next Steps

KP will integrate Green Screen certification requirements into contractual agreements with Furniture and fabric suppliers. Example:

- **Within 12 months:** at least one product/product line must receive certification that it has met one of six levels of requirements for safer chemicals in product formulations specified in the GreenScreen Certified™ Standard for Furniture & Fabrics v1.0: Bronze, Bronze+, Silver, Silver+, Gold, and Gold+; or product must receive certification that it met “GSC Reviewed” requirements but did not meet the certification requirements.

- **Within X months:** same as above for all products/product lines
maharam
PFAS Removal Progress

- Without PFAS: 73%
- With PFAS: 27%
maharam
Glen Raven

GreenScreen Certified™ for Furniture and Fabrics

Heather Covert
Sustainability Manager

March 23, 2022
• Global focus on manufacturing, marketing, and selling performance textiles

• Markets we serve:
  • Awnings & Shades
  • Automotive
  • Marine
  • Indoor and Outdoor Upholstery
  • Residential outdoor rugs
In harmony with the environment

Glen Raven is committed to exceeding industry benchmarks for environmental stewardship. Through ongoing initiatives with our vendors, trade partners, and customers, we will continually stay in the forefront of protecting our environment while producing quality, high-performance textiles.

Our work is aligned to Support Our People and Communities, while also Sustaining Our Planet.

<table>
<thead>
<tr>
<th>PROCESS ACHIEVEMENTS</th>
<th>PRODUCT ACHIEVEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% Renewable Electricity Use, globally</td>
<td>GREENGUARD Gold certification</td>
</tr>
<tr>
<td>No wastewater from any dyeing process</td>
<td>STANDARD 100 by OEKO-TEX certification</td>
</tr>
<tr>
<td>Zero-Waste-to-Landfill Procedures, 97% attainment for all facilities</td>
<td>Facts NSF336 certification</td>
</tr>
<tr>
<td>LEED certified distribution center</td>
<td>“Renaissance” fabrics with 20 - 97% recycled content</td>
</tr>
<tr>
<td>B2B take-back program for 10 years <a href="http://www.recyclemysunbrella.com">www.recyclemysunbrella.com</a> - ~1 million lbs recycled so far</td>
<td>Non-Phthalate, Non-Conflict Mineral, Non-Lead</td>
</tr>
<tr>
<td>All products: Non-Phthalate, Non-Conflict Mineral, Non-Lead</td>
<td>No requirement for a CA Prop 65 label</td>
</tr>
<tr>
<td></td>
<td>Compliant with EU REACH</td>
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</table>

www.recyclemysunbrella.com - ~1 million lbs recycled so far
Recognized the need in the healthcare space for non-PFOA fabric that also met the needs of Environmentally Preferred Purchasing (EPP) programs

No independent verification that products meet EPP specifications

Third-party certifications exist to many environmental and sustainability standards, none of these verify that fluorine is not intentionally added

Growing need to have third-party verification that the products meet the EPP requirements of Healthcare and Governmental Organizations

One state (Michigan) and one federal (US govt) level EPP program have been developed and launched, both excluding PFAS containing products from their programs

GreenScreen Certified™ for Furniture and Fabric standard meets these guidelines
Introducing Sunbrella Contract with Assure

- Greenguard Gold - good indoor air quality
- Facts Silver level certified to the ANSI/NSF 336 Multi-attribute Sustainable Commercial Furnishings Fabric Assessment - manufactured sustainably
- Standard 100 by OEKO-TEX® - tested for harmful substances and deemed safe for end use.
- GreenScreen Certified Furniture and Fabrics Standard - confirms that PFAS is not intentionally added
Introducing Sunbrella Contract with Assure
### What We Admire About GSC

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent, highly regarded, peer review</td>
<td>- CPA has been doing this for 20 years!</td>
</tr>
<tr>
<td>We release our ingredients for review, but our trade secret information remains confidential</td>
<td>Sets a transparent industry standard</td>
</tr>
<tr>
<td>Confirmation that we are not making a regrettable substitute with other concerns</td>
<td>Not just focused on PFAS, but thousands of other chemicals</td>
</tr>
<tr>
<td>Validates our commitment to sustainable products</td>
<td></td>
</tr>
</tbody>
</table>
Was it Easy?

- NO
- Suppliers not initially wanting to cooperate
- It helps to have rigorous supplier requirements and production protocols

Was it Worth It?

- YES
- Sets the products up for success long-term
- Easy for customers to identify our commitment to sustainable products
THANK YOU!

- I hope I have encouraged others to see that this certification could be possible for them
- We are excited to see how this new certification will advance the marketplace
- We look forward to what the future holds

Heather Covert | Sustainability Manager  
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Questions & Answers
THANK YOU!

Slides from the webinar will be posted on the website

Contact Clean Production Action:
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