



**CLEAN  
PRODUCTION  
ACTION**



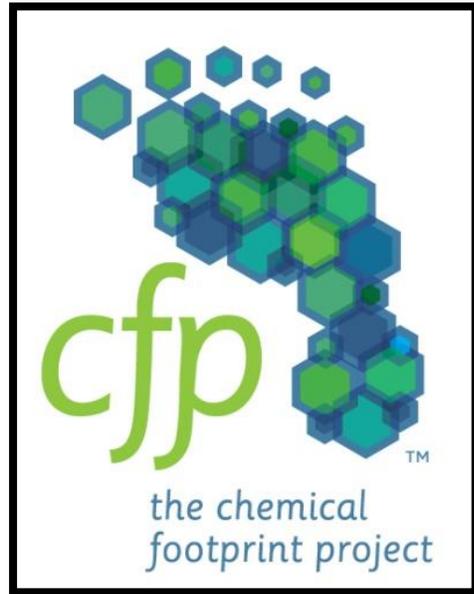
# GreenScreen Certified™ Standard for Furniture & Fabrics

WEBINAR

OCTOBER 28, 2020

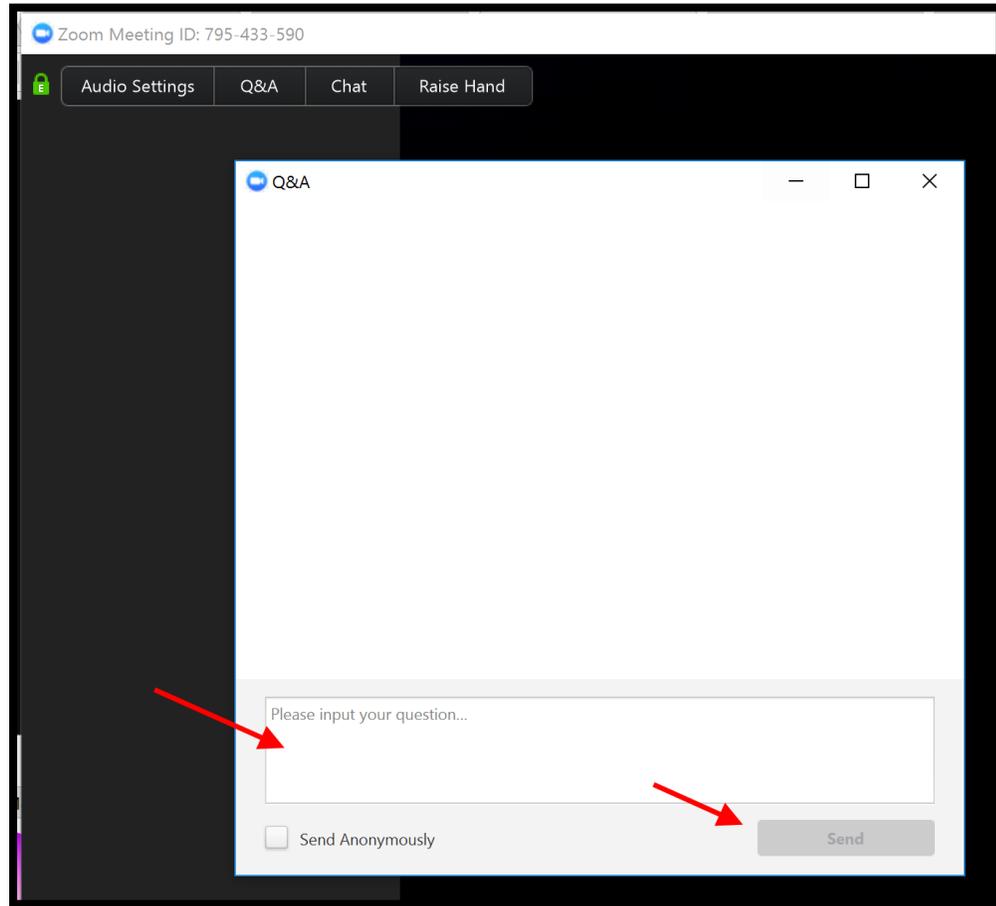


# Clean Production Action – solutions for a safer & healthier tomorrow



# Webinar Questions

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

Presentation and recording will be available at [greenscreenchemicals.org](https://greenscreenchemicals.org)

# Speakers

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**Shari Franjevic**

*GreenScreen Program Manager*

**Clean Production Action**



**Jennifer MacDaniel**

*Principal Interior Designer*

**Kaiser Permanente**



**Mellissa Nguyen**

*Senior Program Manager,*

*Environmentally Preferred Sourcing*

**Vizient**



**Betsy Phillips**

*Director of Strategic Partnerships*

**Maharam**

# Outline

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GreenScreen Certified™ Furniture & Fabric

Value to Health Care Providers

Value to Group Purchasing Organizations

Value to Manufacturers

Q&A



**CLEAN  
PRODUCTION  
ACTION**



# GreenScreen Certified™ Standard for Furniture & Fabrics

OCTOBER 28, 2020

SHARI FRANJEVIC

GREENSCREEN PROGRAM MANGER

SHARI@CLEANPRODUCTION.ORG



# Material Health Matters

## High levels of toxic flame retardant chemicals found in dust inside college classrooms

by Silent Spring Institute



Credit: CC0 Public Domain

<https://phys.org/news/2020-09-high-toxic-flame-retardant-chemicals.html>

## 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.



New research suggests that sofas and vinyl floors, in particular, contain substances that may harm children's health.

<https://www.medicalnewstoday.com/articles/324511>

# Leadership in Chemical Hazard Assessment



2007

GreenScreen for Safer Chemicals —  
assess, and identify CoHCs and safer chemicals

2012

GreenScreen List Translator—  
quickly identify known chemicals of high concern  
(CoHCs)

2017

GreenScreen Certified—  
certified products, e.g. firefighting foam, textile  
formulations

[www.greenscreenchemicals.org](http://www.greenscreenchemicals.org)

# GreenScreen is Globally Recognized and Used

**LEVI STRAUSS & CO.**



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

**Ø ZDHC**  
Zero Discharge of  
Hazardous Chemicals



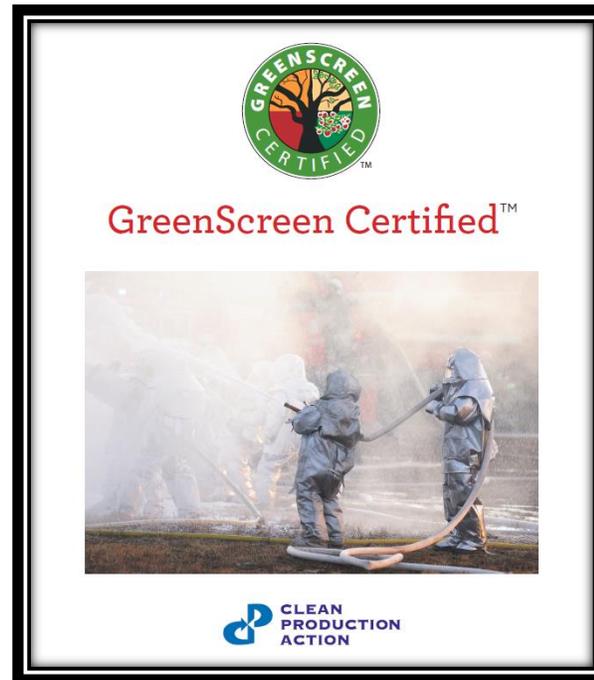
# GreenScreen Certified™ Standards

## Textile Chemicals



Launched in Apr 2017

## Firefighting Foam



Launched in Jan 2020

## Furniture & Fabrics



Launched Oct 1, 2020!

# Acknowledgments – Technical Peer Reviewers

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- **Alex Mlsna**, 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 Einy**, Director – Environmentally Preferred Purchasing, Vizient

## Key Contributors

**Shari Franjevic**, GreenScreen Program Manager,  
Clean Production Action

**Amy Hunsicker**, Consulting to Clean Production Action

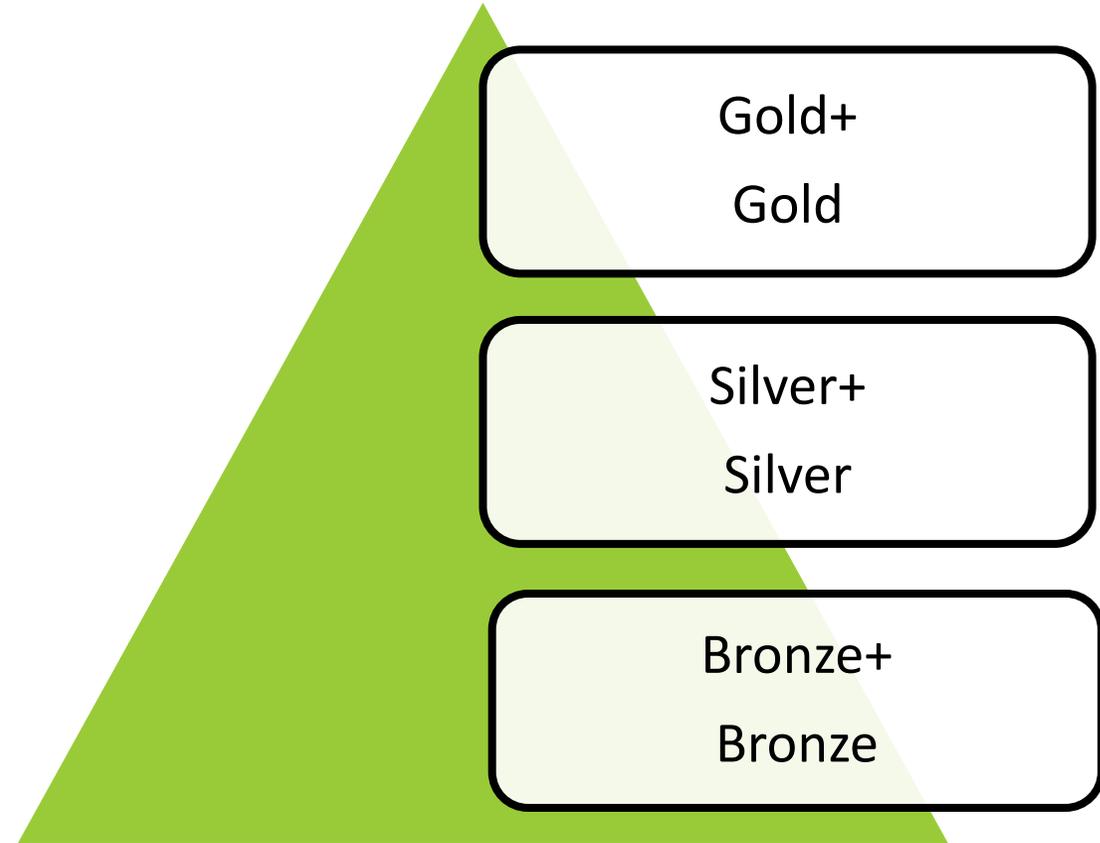
**Mark S. Rossi**, PhD, Executive Director, Clean Production Action

# GreenScreen Certified™ for Furniture & Fabrics

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1. Builds upon gold standard GreenScreen tools
2. Meets Kaiser Permanente's Environmentally Preferable Purchasing Standard
3. Restricts classes of chemicals of concern
4. Enables manufacturers to use the Health Product Declaration (HPD) Open Standard
5. Aligns with US Green Building Council's LEED standard
6. Provides clear steps on journey to increasingly preferable products for people and the planet

# GreenScreen Certified™ for Furniture & Fabrics



# GreenScreen Certified™ for Furniture & Fabrics

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1. Contents disclosed under confidentiality
2. Chemicals assessed for chemicals of high concern
  - Chemical classes of concern
  - GreenScreen criteria and tools
3. Products reviewed for other sustainability requirements
  - Indoor air quality
  - Sustainably sourced wood
  - Waste and recyclability
4. Pragmatic criteria for material specific concerns

# Materials Disclosed under Confidentiality

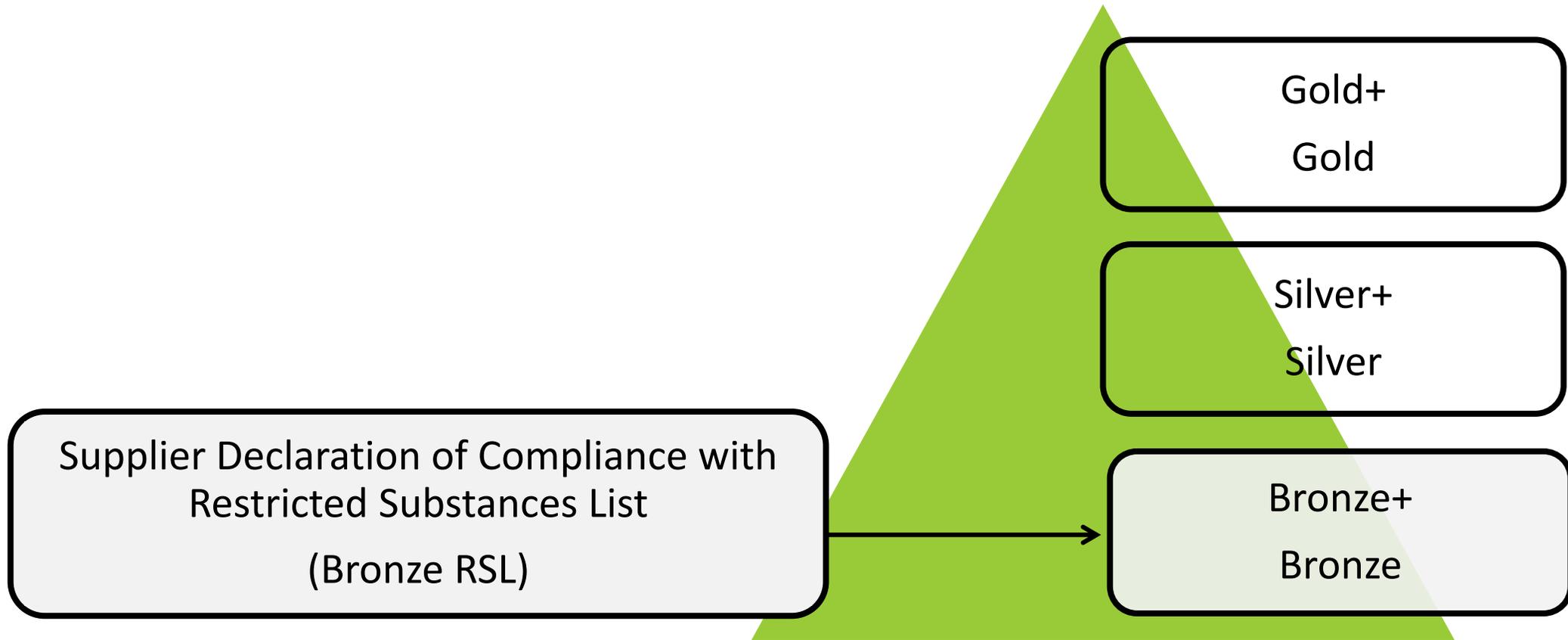
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**All** homogeneous materials present in the product (> 0 ppm) must be disclosed under confidentiality.

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

# Chemicals Disclosed and Assessed

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# Value of Chemical Classes

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- Efficient and precautionary framework
- Rooted in already well established toxicology methods
- Supports decision-making in absence of complete data
- Supports decision-making for new chemicals coming onto the market daily

# Bronze Restricted Substances List

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## 1. Chemical Classes & Chemicals

- Per- and polyfluoroalkyl substances (PFAS)
- Bisphenols
- Ortho-phthalates
- Flame retardants (non-electronics)
- Antimicrobials
- Metals and their compounds (Cd, Pb, Hg, Organotin, Sb)
- Polyvinyl chloride

## 2. Authoritative Government Lists

- EU Restriction on Hazardous Substances (Electronics)
- California Proposition 65 Chemicals
- Persistent, Bioaccumulative and Toxic Chemicals (PBTs)
- Azo Dyes per REACH Annex XVII

# Other Product Sustainability Requirements

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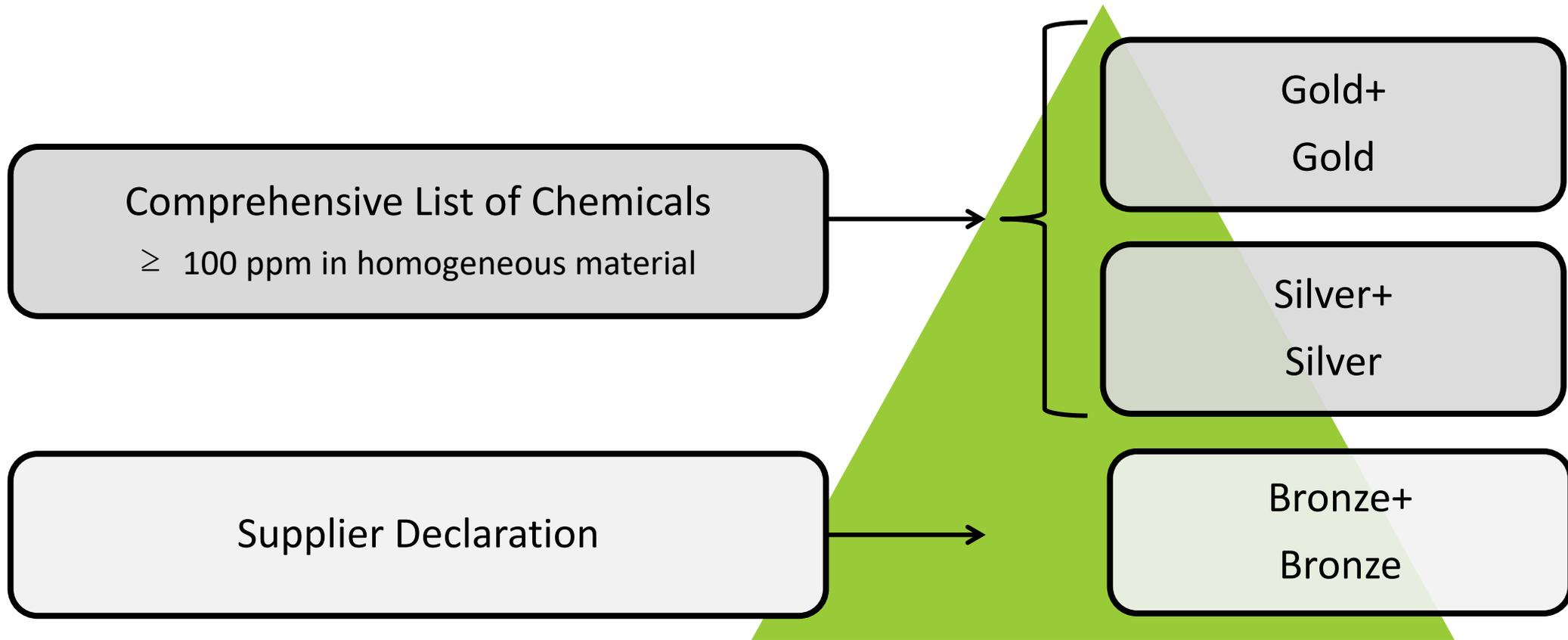
1. Indoor Air Quality (VOCs)
  2. Sustainably Sourced Wood
  3. Waste & Recyclability Criteria
- All aligned with Kaiser Permanente Environmentally Preferable Purchasing Standard

# Pragmatic Criteria for Material Specific Concerns

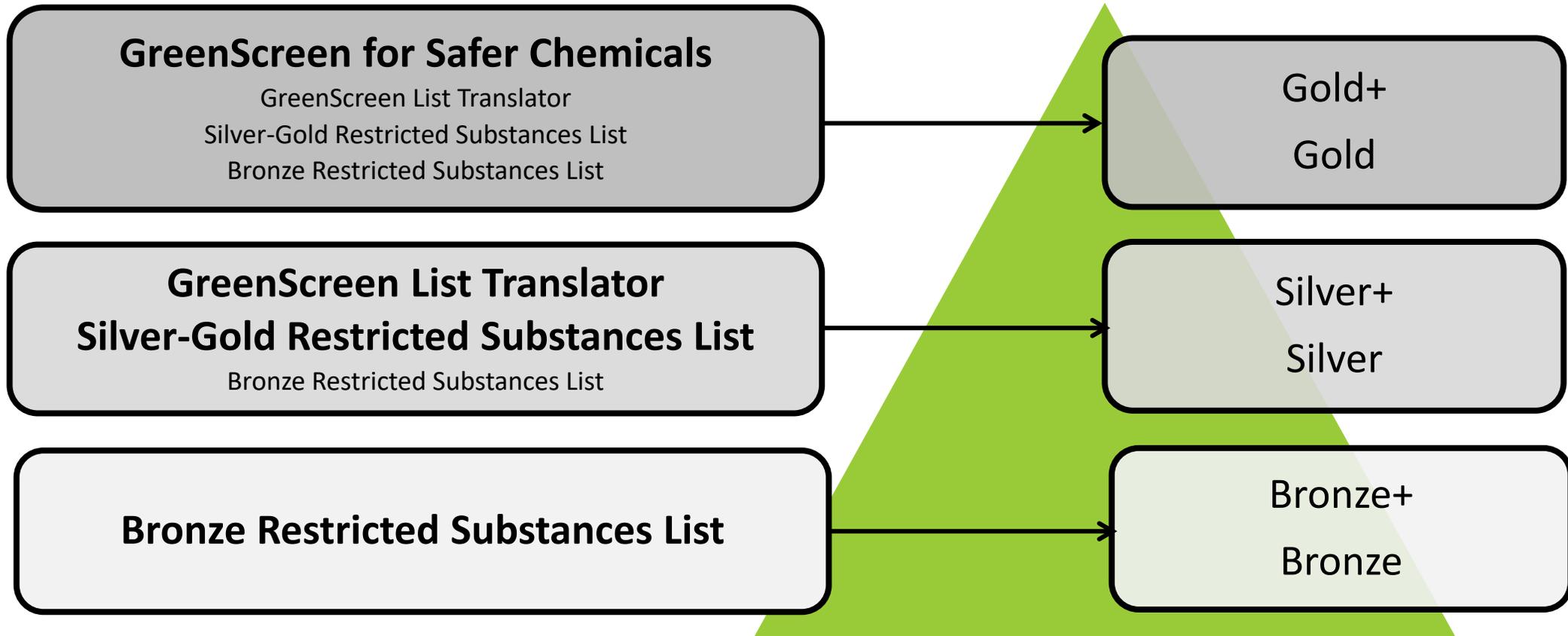
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1. Minor Fasteners
2. Undefined Post-consumer Recycled Content (PCR)
3. Electronic Components
4. Polytetrafluoroethylene (PTFE) in Powder Coats
5. Metal Parts e.g., metal alloys
6. Form Specific Hazards e.g., carbon black

# Chemicals Disclosed under Confidentiality



# Chemicals Assessed for Chemicals of Concern



# Kaiser Permanente Sustainable Sourcing for Furniture & Fabric

**Jennifer MacDaniel, MS, LEED GA**

Principal Interior Designer  
Facilities Strategy, Planning and Design

**October 28, 2020**

# Who we are

- ▶ Founded in 1945
- ▶ Headquarters in Oakland Ca
- ▶ 39 Hospitals
- ▶ 719 Medical Office Buildings
- ▶ 4 Data Centers
- ▶ 300 Support Facilities
- ▶ 8 National Markets
- ▶ 12.4 members
- ▶ Physicians 23,271
- ▶ Nurses 63,306
- ▶ Employees 217,828



# KP Safer Products Accomplishments

- ▶ 2004 - prohibited **PVC** and **Fly Ash** from the backing of carpet
- ▶ 2007 - created the Sustainable Fabric Alliance
- ▶ 2008- implemented the KP EPP Scorecard criteria
- ▶ 2010 - replaced Vinyl lettering with a digital printing process
- ▶ 2010 - elimination of Triclosan from clinical soaps and lotions
- ▶ 2014 - prohibition of **Flame Retardants**
- ▶ 2015 - prohibition of **Antimicrobials**
- ▶ 2015 - prohibition of **Fluorinated** chemicals
- ▶ 2016 - implementation of KP Medical Products Standard
- ▶ 2018 - implemented the KP Furnishing and Fabrics Standard
- ▶ 2019 - adopting **HCWH Healthy Flooring Criteria** as KP Standard

## Healthy Flooring criteria

Environmental attributes for healthy flooring in health care

November 2018

This document provides guidance for manufacturers wishing to meet Health Care Without Harm's Healthy Flooring criteria. The criteria apply to all flooring except carpet, fluid applied floors, and concrete. The criteria do not apply to floor leveling compounds or underlayment.

**Guidance for manufacturers**

This chart summarizes the Healthy Flooring Criteria. Manufacturers can achieve either a Silver or Gold Healthy Flooring rating. Criteria details and a rationale for their inclusion are included below the chart.

\*Product\* means every part of the flooring, including the flooring material, coatings, and adhesives.

SILVER LEVEL CRITERIA			
CHEMICAL AND MATERIAL CRITERIA	DETAILS	SILVER	GOLD
Alkylphenols	The product does not contain alkylphenols, alkylphenol ethoxylates, or related compounds above 100 ppm.	x	x
Antimicrobial agents	The product does not contain any added antimicrobials.	x	x
Bisphenol A and its analogs	The product does not contain bisphenol A or its structural analogs above 1000 ppm.	x	x
Epichlorohydrin	The product does not contain epichlorohydrin-based formulations.	x	x
Flame retardants	The product does not contain flame retardants above 100 ppm.	x	x
Formaldehyde	The product does not contain formaldehyde-based formulations.	x	x
Isocyanates	The product does not contain unreacted ("free") isocyanates.	x	x

1

Final Version: 3/20/18

**Kaiser Permanente Environmentally Preferable Purchasing (EPP)  
Furniture & Fabrics EPP Standard**

Summary: Products must meet all fifteen (15) of the EPP Chemicals of Concern criteria, and at least two (2) of the EPP Waste criteria.

**A. Chemicals of Concern Criteria:**

Product must meet **all fifteen (15)** of the EPP Chemicals of Concern criteria contained herein. Note parts per million (PPM) where indicated.

Chemical criteria listed herein pertain to the entire product, including the ticking, fire barrier, and core as well as recycled content within the product.

1. EUROPEAN UNION RESTRICTION OF HAZARDOUS SUBSTANCES (EU RoHS) DIRECTIVE (ELECTRONICS) – All homogenous electronic parts are compliant with all EU RoHS Directive's restricted limits (excluding exemptions)\*.
 

\*Note: Not relevant for Textiles.

\*Chemicals include cadmium, mercury, lead, hexavalent chromium, and polybrominated biphenyls, polybrominated diphenyl ethers. RoHS Directive information, including exemptions and restricted limits, can be found at <https://www.gov.uk/guidance/rohs-compliance-and-guidance>
2. BISPHENOL A (BPA) - All homogenous materials contain less than 1000 ppm of intentionally added Bisphenol A and related structural/functional analogues\*.
 

\*Structural/functional analogues include: bisphenol AP, bisphenol AF, bisphenol B (BPB), bisphenol C, bisphenol C2, bisphenol E (BPE), bisphenol F (BPF), bisphenol G, bisphenol M, bisphenol S (BPS), bisphenol P, bisphenol PH, bisphenol TMC, bisphenol Z, and 4-cumylphenol (HPP) or Bisphenol A derived chemicals.
3. POLYVINYL CHLORIDE (PVC) - Does not contain Polyvinyl Chloride.
4. FLAME RETARDANTS\* – All homogenous materials contain less than 1000 ppm by weight of the homogenous material excluding electrical components.
 

\*Flame retardant chemical: Any chemical or chemical compound for which a functional use is to resist or inhibit the spread of fire, including, but not limited to, halogenated, phosphorus-based, nitrogen-based, and nanoscale flame retardants; flame retardant chemicals listed as "designated chemicals" pursuant to California Health and Safety Code Section 105440; or any chemical or chemical compound for which "flame retardant" appears on the substance Safety Data Sheet (SDS) pursuant to Section 1910.1200(g) of Title 29 of the Code of Federal Regulations.
5. FOR ELECTRICAL COMPONENTS, HALOGENATED FLAME RETARDANTS\* – All homogenous materials contain less than 1000 ppm
 

\*All flame retardant (FR) substances must contain no halogenated FRs and must achieve a GreenScreen® Benchmark 2 or higher score, as certified by a GreenScreen® License Provider.
6. PHTHALATES, INCLUDING di(2-ethylhexyl) phthalate (DEHP) – All homogenous materials contain less than 1000 ppm of phthalates\*.

1

# Safer Products Goal



**Safer Products:**  
KP will increase its purchase of products and materials meeting environmental standards to **50% by year 2025**

- ▶ Reduce and eliminate chemicals of concern
- ▶ Reduce compliance risks
  - ▶ Prop 65 notifications
  - ▶ Reduce hazardous waste
- ▶ Promote recycling
- ▶ Performance and business criteria must continue to be met

# 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
- ▶ Availability of alternatives and driving supplier improvement
- ▶ Validation of supplier information
- ▶ Greenwashing

# Third Party Certification

- ▶ KP seeks to identify and utilize third party certifications to support our EPP Program
- ▶ Key considerations for third party certifications:
  - ▶ Transparent
  - ▶ Third Party independent evaluation
  - ▶ Appropriate and meaningful criteria
  - ▶ Examples:
    - Greenseal (GS 37 for cleaning products)
    - EPEAT Registry (Computers, Copiers)
    - GreenScreen Certified (Furniture, Fabric)



GreenScreen Certified™



# Next Steps



- ▶ Start to integrate Green Screen 3rd party certification into furniture and fabric sourcing processes
- ▶ Promote the use of EPP criteria in healthcare industry
- ▶ Continue to identify sustainable building materials to add to our list
- ▶ Continue to help educate our manufacturers to move the market in a more sustainable way

Thank you!





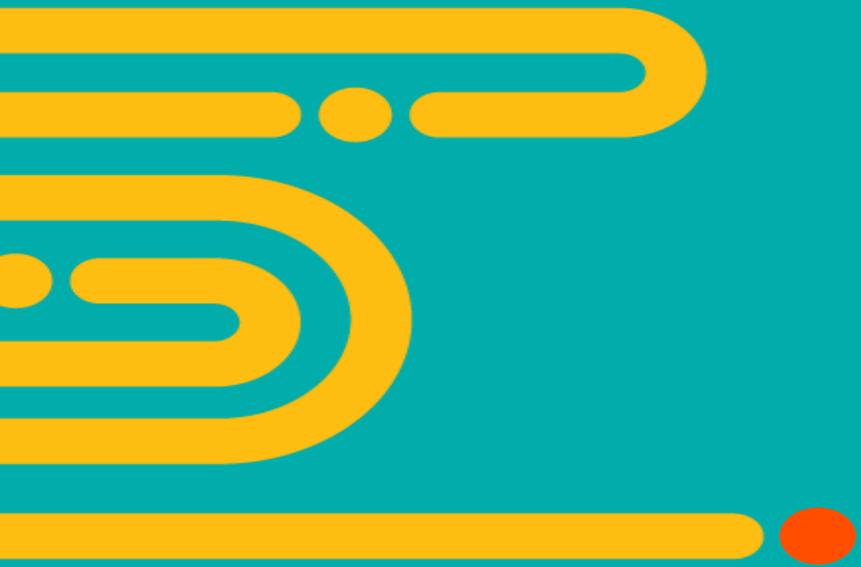
# Environmentally Preferred Sourcing



Mellissa Nguyen  
Sr. Program Services Manager, EPS

**vizient**™

# A trusted leader



In our rapidly evolving health care environment, improving outcomes while lowering costs is more necessary and valuable than ever.

To do that, health care organizations need a **partner** with the scale, breadth and depth of experience, and proven expertise to deliver exponential impact across the continuum of care.

**Meet Vizient.**

# Connecting unmatched insight and expertise

## Data and analytics

 **>\$155B**  
in supply  
spend data

 **68M**  
patient  
records

 **31M**  
inpatient  
encounters

 **450M**  
outpatient  
encounters

## Collaboration services

 **>90**  
community-  
based  
networks

 **25**  
academic  
medical  
center  
networks

 **1,300**  
hospitals  
participating  
in performance  
improvement  
offerings

## Advisory expertise



**4th** largest  
health care consulting firm\*

conducted



**>800** engagements  
in last four years



with

**>550** consultants,  
360 with advanced degrees

## Sourcing and supply chain

 **>\$100B**  
in annual purchases

 **>1,200**  
suppliers

 **≈2,100**  
national contracts  
for  
**>725,000**  
product line items

<sup>1</sup> Largest healthcare management consulting firms, 2020. *Modern Healthcare*. Accessed September 15, 2020  
<https://www.modernhealthcare.com/data-lists/41669/largest-healthcare-management-consulting-firms-2020-pdf-and-full-survey-results>

# Our members represent the leading health care providers in the nation

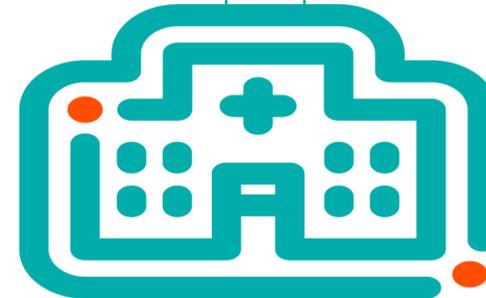


Top 10

Honor roll of best hospitals

Top 10

Honor roll of best children's hospitals



— U.S. News & World Report  
2019-2020

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Baylor Scott & White Health	Cedars-Sinai ®	Cleveland Clinic	Kaiser Permanente ®	
Mayo Clinic	Memorial Hermann	Partners ® Healthcare	Providence St. Joseph Health	Stanford Health Care

# Standardized Environmental Preferred Attributes

EP Effective October 2017, completion of EP attributes requested in the RFP became an element of the non-financial criteria in all bids



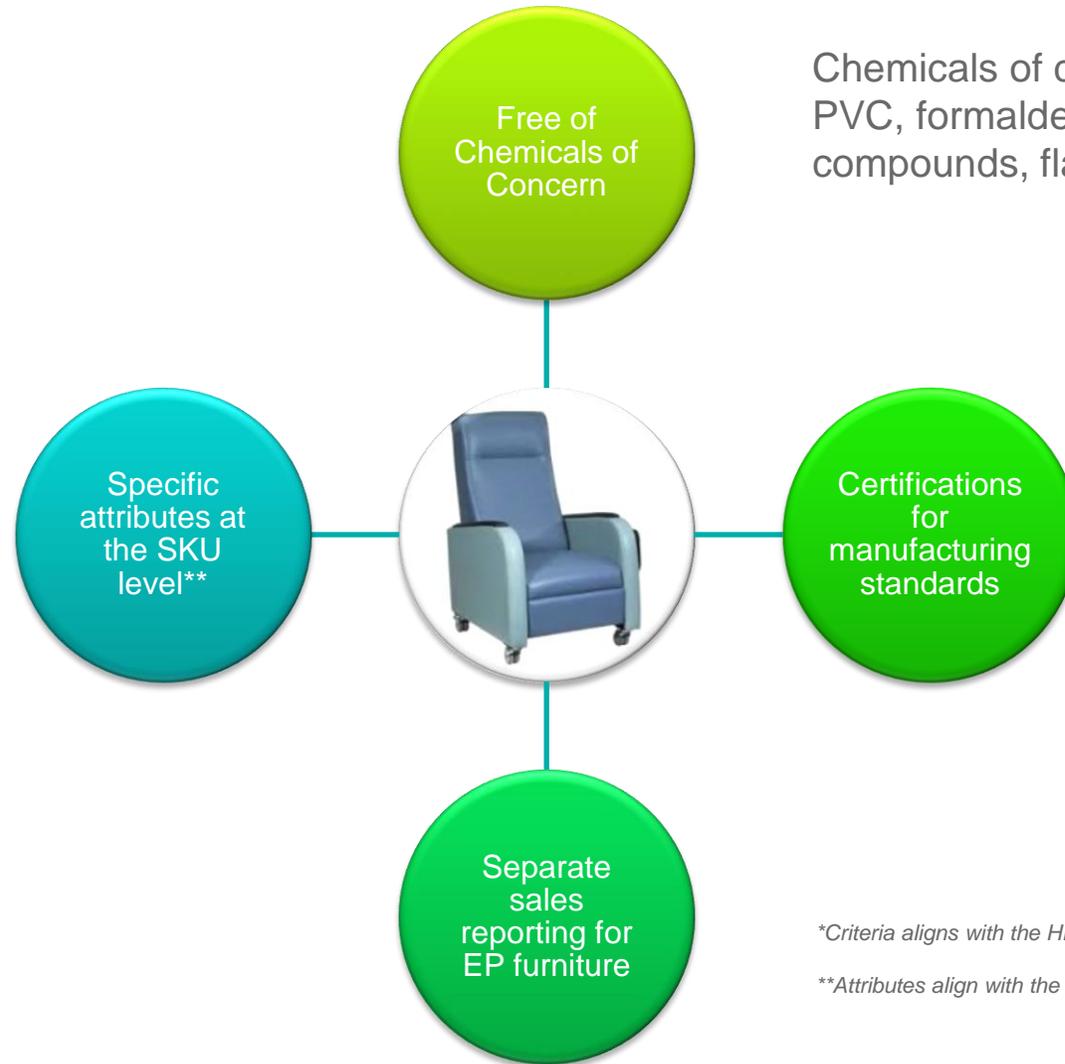
# Making Green Purchasing Easier



Supplier agrees to:

- provide a list of products that meet predefined environmentally preferred criteria,
- report EPS spend separately from conventional spend, and
- provide proof of 3<sup>rd</sup> party certification for environmental standards or scientific documentation to showcase the product or service has no adverse effect to human and environmental health.

# Environmentally Preferred Furniture Portfolio



Chemicals of concern\* include:  
PVC, formaldehyde, antimicrobials, fluorinated compounds, flame retardants

*\*Criteria aligns with the HHI Healthier Interiors Challenge, CEH criteria, and EPA EPP guidelines*

*\*\*Attributes align with the defined KP furniture attribute standards*

# vizient<sup>®</sup>

**Mellissa Nguyen, Sr. Program Manager, Environmentally Preferred Sourcing**

**[EPS@vizientinc.com](mailto:EPS@vizientinc.com)**

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**maharam**



**COSTUMES**  
*for*  
**ALL OCCASIONS**

1941 "The House of Service"  
**MAHARAM**  
FABRIC CORPORATION

6 E. LAKE STREET  
CHICAGO, ILL.

130 W. 46th STREET  
NEW YORK, N. Y.

"Maharam Sets the Style for the Costume Parade"











Tord Boontje  
BLACK MOUNTAIN COLLEGE  
Martha Wegman

Inside Outside  
Gert Bräse

Bon Arret

CENTURY OF THE CHILD

BAUHAUS

30  
40  
50  
60

Members Structures  
Doris E. Ross & Victoria Topley

MAARIMAKO

PERIOD STYLES

pattern  
entire body

Shelby's 50 Years

ANNI ALBERS ON WEAVING  
Artists Textiles 1940-2018  
5000 years of textiles

FRIETZ KUYAS  
HOMINGSHLBE

Richard Rogers  
RM SCHINDLER

POUL GERNES  
ALFRED KUHN  
HARIBED KUTNER

GUSTAV KLINT  
ALEX KATZ  
ELLISHORTH KELLY

The Power of Form  
HONEGGER

NEW WORLDS

ANNI ALBERS ON WEAVING

Bon Arret

INSIDE & OUTSIDE  
MAARIMAKO

Jean Nouvel  
Richard Rogers  
RM SCHINDLER

ERIC HENRIKSSON  
LE CORBUSIER

JAPANESE HOUSES





**maharam**

# Questions



**Shari Franjevic**

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# Thank you!

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## Contact Clean Production Action:

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