SAFER SEATING

Finding Furniture Free of Flame Retardants, Formaldehyde and Other Toxic Chemicals











RPN Webinar December 15, 2015





Who is RPN?

Nonprofit network

- States
- Local governments
- Federal agencies
- Colleges and universities
- School districts
- Businesses
- Non-profits



RPN Mission

"Promote and practice responsible purchasing by identifying best practices, developing effective purchasing tools, educating the market, and using our collective purchasing power to maximize environmental stewardship, protect human health, and support local and global sustainability.





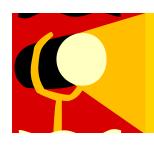
Have a Question?

Submit you questions by typing them into the Questions Box in your GoToWebinar application.

We will compile and answer them during the Q&A session at the end of the webinar.







Overview

- Which toxic chemicals are found in furniture products?
- How can purchasing agents identify and procure safer furniture products?
- How are new flame retardancy standards and tools making it easier to buy flame retardant-free furniture?
- What steps should purchasers take to develop specifications, evaluate bids, and promote safer furniture products on their contracts?





SAFER SEATING/FURNITURE WEBINAR

Contaminating Our Bodies With Everyday Products



✓ Email

Nicholas Kristof NOV. 28, 2015



Activists in Paris protest the use in common household products linked to endocrine disruption in March 2014.

Bertrand Guay/Agence France-Presse — Getty **Images**

IN recent weeks, two major medical organizations have issued independent warnings about toxic chemicals in products all around us. Unregulated substances, they say, are sometimes linked to breast and prostate cancer, genital deformities, obesity, diabetes and infertility.

"Widespread exposure to toxic environmental chemicals threatens healthy human reproduction," the International Federation of Gynecology and Obstetrics warned in a landmark statement last month.

The warnings are a reminder that the chemical industry has inherited the mantle of Big Tobacco,

minimizing science and resisting regulation in ways that cause devastating harm to unsuspecting citizens.





infants

By Sara Goodman | December 2, 2009

U.S. minority infants are born carrying hundreds of chemicals in their bodies, according to a report released today by an environmental group.

The Environmental Working Group's study commissioned five laboratories to examine the umbilical cord blood of 10 babies of African-American, Hispanic and Asian heritage and found more than 200 chemicals in each newborn.



Types of Office Furniture

- Chairs
- Couches
- Desks/Mobile work stations
- Tables
- Modular systems
- Bookcases
- Filing cabinets
- Beds
- Dressers and Stand-up Closets







Polling Question #1

Does your organization avoid any toxic chemicals when purchasing furniture?

Vote now.







SAFER SEATING/FURNITURE WEBINAR

Jean Hansen,

LEED Fellow, FIIDA, CID, AAHID, EDAC HDR Architecture

Jean Hansen is the Sustainable Principal for **HDR Architecture's Sustainable Design Solutions team** and firm globally; based in San Francisco, California with 30+ years of experience in interior design, planning and sustainable design. Ms. Hansen is responsible for advancing HDR's sustainability initiatives in project and research work for healthcare, commercial and institutional environments. She has worked on the development of many nationally recognized sustainable resources and was a core committee member in the development of the USGBC's LEED **Healthcare rating system, the Health Product** Declaration (HPD) and BIFMA's sustainable furniture standards, e3 and level.









Growing Concern for Healthy Interiors

Chemicals of Concern:

- Flame retardants
- Formaldehyde
- Perfluorinated chemicals
- PVC (vinyl)
- Heavy Metals
- Hexavalent Chromium

















SAFER SEATING/FURNITURE WEBINAR

Toxic Chemicals Found in Furniture

Flame retardants: Electronics, Insulation, Foam, Wires & Cabling, Plastics

PVC/Vinyl: Mattress coverings, Furniture, Fabrics, Wires & Cabling

Formaldehyde (added): Furniture, Fabric Finishes, Adhesives for multiple wood products

PFCs: Furniture, Fabrics

Antimicrobials (added): Furniture, Fabrics, Wood and

Plastic Finishes

Heavy metals: Furniture, Fabrics, Dyes, Wires & Cabling, Lighting (lead, mercury, cadmium, antimony)

Hexavalent Chromium: Furniture (plated finishes)









Polyvinyl Chloride (PVC) or Vinyl

Guidance

- Products must not contain PVC
- Small components exemption: >1% of product by weight

- Can create persistent, bioaccumulative, and toxic byproducts in manufacture and at end of life
- Carcinogenic and highly toxic chemicals in manufacture
- Requires use of additives (lead, phthalates)









Formaldehyde

Guidance

- Acceptable certifications for low-emitting furniture
 - Cradle to Cradle
 - SCS Indoor Advantage
 - UL GREENGUARD Gold
 - Comply with BIFMA e3-2011 Furniture Sustainability
 Standard or level (Sections 7.6.1 and 7.6.2)

- Known human carcinogen
- Prop 65 carcinogen
- Gastrointestinal or liver toxicant
- Reproductive toxicant
- Respiratory toxicant, asthma trigger (respiratory sensitizer)









Perfluorinated Compounds (PFCs)

Guidance

 Must not use stain or water repellant treatments that contain PFCs

- Most manufactures moved from C8 to C6 chemistry (Shorter-Chain PFCs)
- Still persistent in environment and bioaccumulative in people and wildlife
- Long half-life in animals (some less than C8s but they differ), not known for humans
- Emerging Health Information
 - Endocrine disruptors
 - Carcinogenic
 - Reproductive and developmental toxicant







Antimicrobials

Guidance

Must not contain triclosan, triclocarban, or any other antimicrobials

- Based on current research, very limited evidence that the addition of antimicrobials to furnishings reduces rate of (hospital acquired infections) HAIs
 - Emerging research on the efficacy of copper on high-touch surfaces
- Antimicrobials can have toxic properties without adequate data on health impacts
- Can lead to development of antimicrobial-resistant organisms that may pose greater hazards









BULLETIN KP FACILITIES DESIGN PROGRAM



BULLETIN #: 2015-05						
Approved By: John Kouletsis, AIA, EDAC, National Facilities Services, Vice President, Facilities Planning and Design						
Topic: Prohibition of Antimicrobial Che	micals in Fabrics, Furniture and Finishes					
Date Issued: October 15, 2015	Contact: Jennifer MacDaniel					

ITEM TYPE:
☐ New ☐ Modification ☐ Lesson Learned
BULLETIN TYPE:
☐ Recommended ☐ Required: see exceptions below
PROGRAM ELEMENT(S) IMPACTED: (Check all that apply) Space Program Functional Program Room Templates Design Criteria Sourcing Strategy MedAsset/KP Select Equipment/Furniture Signage
Other— not applicable
POTENTIAL IMPACT TO COST
MODEL: ☐ Yes ☑No ☐ Not Applicable Additional Comments:
POTENTIAL IMPACT TO PROJECT BUDGET:
☐ Yes ☑No ☐ Not Applicable Additional Comments:

BRIEF DESCRIPTION OF CHANGE:

Effective immediately, specification of antimicrobial chemical additives or treatments for fabric, furniture, and finishes are prohibited on any Kaiser Permanente project. This prohibition includes all Main Loan Fund, PM&R and Expense projects.

What's Changing:

As part of an on-going mission to protect public health, Kaiser Permanente seeks to eliminate the specification of antimicrobial chemicals in the projects that we design and build.

Our furniture and fabric vendor partners have been notified of our goal to eliminate the following 13 antimicrobial chemicals or elements:

- 1. Benzisothiazolin 3-one (BIT)
- Didecyl dimethyl ammonium chloride (DDAC)
- 3. Diiodomethyl p-tolyl sulfone
- 4. Hexamethylenetetramine
- 5. Kathon 886 (CIT/MIT mixture)
- 6. Methylchlorothiazolinone (CIT, CMIT)
- 7. Methylisothiazolinone (MIT)
- 8. N-octadecyldimethyl (3-(trimethyoxysilyl) propyl) ammonium chloride
- 9. Silver (nano)
- Silver sodium hydrogen zirconium phosphate
- 11. Silver zinc zeolites
- 12. Triclosan
- 13. Zinc Pyrithione

Heavy Metals

Guidance

- Must not contain heavy metals including mercury, cadmium, lead and antimony (less than 100 ppm)
- Cradle to Cradle and BIFMA address this in specific credits

- Persistent bioaccumulative toxic (PBT) chemicals
- Contribute to
 - Cancer
 - Endocrine disruption
 - Brain and nervous system damage
 - Birth defects
 - Impaired childhood development









Hexavalent Chromium

Guidance

- Must not contain hexavalent chromium in plated finishes
- Less than 100 ppm

- Recognized human carcinogen
- Respiratory sensitizer asthmagen (AOEC)
- Alternative materials exist for alternates
 - Stainless steel
 - Anodized aluminum
 - Powder coated









Market Support

Drivers: Resources, Tools



Rating Systems

- LEED Credits
 - LEED for Commercial Interiors
 - EQc4.5, low-emitting
 - LEED for Healthcare
 - MRc5, low-emitting, chemicals of concern
- Living Building Challenge –
 Red List
- WELL Building Standard









Healthier Hospitals Initiative (HHI): Healthy Interiors Chemicals to Avoid Minimum 30% to Meet HHI Challenge

Polyvinyl chloride (PVC) or Vinyl

Formaldehyde (added)

Perfluorinated compounds (PFCs)

Antimicrobials (added)

Flame retardants

http://healthierhospitals.org/hhi-challenges/safer-chemicals/list-furniture-and-materials-meet-hh-healthy-interiors-goal







SAFER SEATING/FURNITURE WEBINAR



Allsteel[®]

Gunlocke[®]

HAWORTH'

A PRACTICE GREENHEALTH PROGRAM

Herman Miller

HON.



























HermanMiller



HHI 2.0 Compliant Products from Herman Miller

Furniture described herein meets the Healthy Interiors goal of the Safer Chemicals Challenge according to the manufacturer. Practice Greenhealth does not verify manufacturer information:

Ensure that 25% of the annual volume of freestanding furniture and medical furnishings, purchased, based on cost.

- Halogenated Flame Retardants (HFR): must contain < 1000 ppm by wt intentionally added HFR of the homogenous material.
 NOTE: now requiring no Flame Retardants (FRs) (where code allows)
- . Formaldehyde: comply with ANSI/BIFMA e3-2011 7.6.1 and 7.6.2.
- . PFCs: Must not use stain-repellant treatments that contain perfluorinated compounds.
- . PVC: Products must not contain PVC, components that constitute less than 1% of the product by weight are exempt.
- Antimicrobials: Must have published data showing HAI (Healthcare Acquired Infection) reductions and antimicrobial must be EPA registered.

*PVC in electronics are exempt from HHI

	FR	Formaldehyde	PFC	PVC	Antimicrobials	Exceptions
Seating						
Aeron	Complies	Complies	Complies	Complies	Complies	CAL 133 version
Caper	Complies	Complies	Complies	Complies	Complies	Colored armpads
Embody	Complies	Complies	Complies	Complies	Complies	CAL 133 version; High performance antimicrobial textile option
Mirra	Complies	Complies	Complies	Complies	Complies	CAL 133 version; High performance antimicrobial textile option
Mirra2	Complies	Complies	Complies	Complies	Complies	CAL 133 version; High performance antimicrobial textile option
Public Office Landscape Social Chair	Complies	Complies	Complies	Complies	Complies	
Sayl	Complies	Complies	Complies	Complies	Complies	Colorguard vinyl; CAL 133 version; High performance antimicrobial textile option, Colored armpads
Setu	Complies	Complies	Complies	Complies	Complies	Colorguard vinyl; CAL 133 version;



December 2015



Product	Meets Criteria (Yes/No)								
	FR	Formaldehyde	PFC	PVC	Antimicrobials	Exceptions			
Furniture									
Canvas Office Landscape Wall-Based	Complies	Complies	Complies	Complies	Complies	Curved edge laminate worksurfaces			
Canvas Office Landscape Oock-Based	Complies*	Complies	Complies	Complies	Complies	Curved edge laminate worksurfaces; *Flame retardant under 1000ppm of product, required to meet UL electrical requirements			
Canvas Office Landscape Beam-Based	Complies	Complies	Complies	Complies	Complies	Curved edge laminate worksurfaces			
Canvas Office Landscape Storage-Based	Complies	Complies	Complies	Complies	Complies	Colorguard Vinyl on Cushion Top			
Public Office Landscape	Complies	Complies	Complies	Complies		Colorguard Vinyl; High performance antimicrobial textile option			
Renew Sit-to-Stand Tables	Complies	Complies	Complies	Complies*	Complies	Curved edge laminate worksurfaces			
Meridian Storage	Complies	Complies	Complies	Complies	Complies	Colorguard Vinyl on Cushion Top			
Tu Storage	Complies	Complies	Complies	Complies	Complies	Colorguard Vinyl on Cushion Top			
Tu Storage: L-Series	Complies	Complies	Complies	Complies	Complies	Colorguard Vinyl on Cushion Top			
Eames Tables	Complies	Complies	Complies	Complies	Complies	Laminate worksurface; plastic edge veneer worksurface			
Everywhere Tables	Complies	Complies	Complies	Complies	Complies	Curved edge laminate worksurfaces			
Compass System	Complies	Complies	Complies	Complies	Complies	3-D laminate			
Nala	Complies	Complies	Complies	Complies	Complies	Colorguard Vinyl; High performance antimicrobial textile option			
Co/Struc System	Complies	Complies	Complies	Complies	Complies	Curved edge laminate worksurfaces			
Nemschoff									
Steps	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Monarch Tables	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Monarch (894-10)	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Harmon	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Altair Side Chair	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Altair Plus Side Chair	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Altair Arm Chair	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Capella Coffee Table	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			
Capella Chair	Complies	Complies	Complies	Complies	Complies	Vinyl upholstery; PFC and antimicrobial upholstery			



December 2015





Seating

Steelcase



Amia



Cachet



cobi



Gesture



Leap



Move

Product considerations*

Product

1, 2, 3, or no upholstered arm caps No upholstered seat or back 1, 2, 3

1, 2, 3

1, 2, 3, no Leap Plus or Leap Stool 1 or no cushioned back



Node



QiVi



Reply



Siento



Snodgrass

1, 2, 3



Think

1, 2, 3

Product considerations*

Product

No CAL133 compliant chairs

133 1, 2, 3

1, 2, 3

1, 2, 3, or no headrest

Coalesse









CASE STUDY ► Safer Chemicals

Eliminating HHI Chemicals of Concern for Healthy Interiors at Beaumont Health System

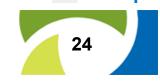
Beaumont SYSTEM

Benefits

- Over \$1M in annual spend dedicated to avoiding HHI-identified chemicals of concern
- 26 percent of all furnishings purchased avoid HHI chemicals of concern meeting the goals of the HHI Healthier Interiors Challenge
- Cost reduction of 10 percent on IT project from converting to new workstation system from Haworth that avoids chemicals of concern
- Reduction of exposure to hazardous chemicals by building occupants, patients, staff and the community
- Worked with Haworth to increase furniture purchased without HHI priority chemicals from 43 percent of dollars spent to a new total of 63
 percent healthy interiors furniture purchased in one year







Certifications and Resources for Furniture/Fabric

Multi-attribute Certification

- C2C (3rd party)
- BIFMA level (3rd party)
- BIFMA e3 (self-certified)





Multi-attribute Disclosure

- Declare (self-certified)
- HPDs (self-certified)



https://www.asid.org/sites/default/files/ ASID Guide to Ecolabels 2011.pdf





Single-attribute

- SCS Indoor Advantage (emissions)
- UL GREENGUARD <u>Gold</u> (emissions)
- SCS Recycled Content (recycled content)

Wood

- FSC (multi-attribute) (preferred)
- SFI (multi-attribute) (less valued)

Textiles

- C2C (multi-attribute)
- SCS Recycled Content (single attribute)















Q & A



Jean Hansen
Sustainable Principal
HDR Architecture
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Polling Question #2

Has your organization adopted a policy restricting the purchase of products with flame retardant chemicals?



Vote now.







Responsible Purchasing Network Webinar 12/15/15

Center for Environmental Health (CEH)

A non-profit organization dedicated to protecting public health from exposures to toxic chemicals.

The Center for Environmental Health works with large purchasers to utilize their buying power to incentivize the production of environmentally preferable products

Www.ceh.org



Judy Levin, MSW

Judy Levin is the Pollution Prevention Director at CEH. She works closely with large purchasers including government, higher education, health care organizations and corporations to identify and procure environmentally preferable products in order to use their purchasing power to move the market towards safer products.



Judy has been leading the Center's campaign to reduce the use of flame retardant chemicals for the past 8 years. She is the author of a purchaser guide on flame retardant-free furniture called KICKING TOXIC CHEMICALS OUT OF THE OFFICE.

Most recently, Judy helped author a successful flame retardant disclosure bill that requires furniture manufacturers to label their products as to the presence or absence of flame retardant chemicals.

Flame Retardants





What are flame retardants?

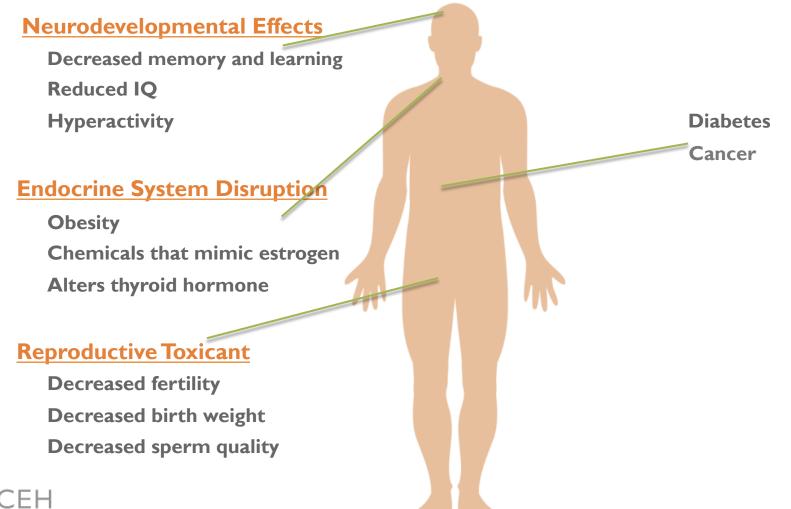
Inhibit ignition or spread of flames

Where are flame retardants used?

- ✓ Electronics
- ✓ Building Insulation
- √ Foam Furniture
- ✓ Wires and Cabling



Health Effects of Flame Retardants



Flame Retardants are Ubiquitous













How are We Exposed?

- Ingestion of contaminated dust particles
- Ingestion of food, especially meat and dairy
- Occupational exposure

Unique to Children

- Absorption across the placenta
- Breast milk
- Frequent hand-to-mouth activity





Occupational Exposures

- Fire Fighters/First Responders
- FRC Manufacturing Workers
- Foam Workers
 (manufacturers, installers and recyclers)











Sources of Exposure



















Flame Retardants: Lack of Fire Safety Benefit

 No significant difference in fire growth between foam with flame retardants formulated to pass TB 117 and untreated foam.

Source: U.S. Dept. of Commerce, National Bureau of Standards.

 Chairs with flame retardant foam offered no practically significant difference than those without FR-treated foam. Source: CPSC, 2012.





Additional Considerations

- Presence of Automatic Fire Sprinklers in Buildings
- People not allowed to smoke
- No fire data supports need for flame retardant chemicals in

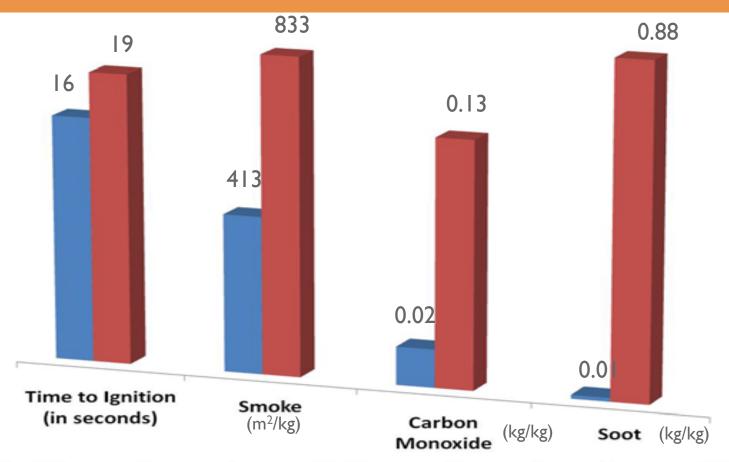
office furniture







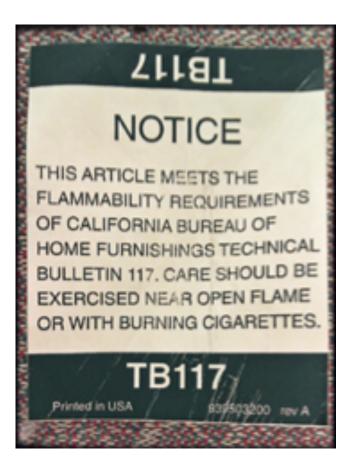
Toxic Gases May Make Fires Less Survivable







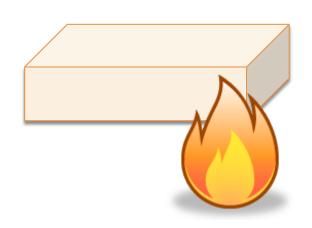
Furniture Flammability Regulations







Technical Bulletin 117 (TB117) Tests Bare Furniture Foam



Does not consider real life scenario

 The filling inside upholstered furniture must resist a small open flame for 12 seconds

 Flame retardants are added to polyurethane foam so it can pass this test





TB117-2013: Smolder Test on Fabric



- Addresses smoldering ignition, which is the leading cause of furniture fire deaths
- Focus on fabric where fires actually start, more realistic
- Flame retardants are not needed

Increased fire safety without toxicity



TB 117-2013 \neq Flame Retardant Free

 New standard provides way to pass new test without FRs
 BUT.....

- Does <u>not</u> prohibit the use of FRs
- You must ask the manufacturer about their use of FRs





New Labeling Requirement: Required in California, Largely Adopted Nationally

NOTICE

THIS ARTICLE MEETS THE FLAMMABILITY
REQUIREMENTS OF CALIFORNIA BUREAU OF
ELECTRONIC AND APPLIANCE REPAIR, HOME
FURNISHINGS AND THERMAL INSULATION
TECHNICAL BULLETIN 117-2013. CARE SHOULD BE
EXERCISED NEAR OF EN PLAINE OR WITH BURNING
CIGARETTES.

The upholstery materials in this product:
____contain added flame retardant chemicals
_X_contain NO added flame retardant chemicals

The State of California has updated the flammability standard and determined the fire safety requirements for this product can be met without adding flame retardant chemicals. The State has identified many flame retardant chemicals as being known to, or strongly suspected of, adversely impacting human health or development.



Technical Bulletin 133



Seating Furniture for Public Buildings or Assembly Areas

CA includes:

- Hospitals, health care facilities, nursing homes, board and care homes, convalescent homes
- Jails, prisons, penal institutions
- Stadiums, auditoriums
- Public assembly areas of hotels/motels





PURCHASER TOOLS

- Letter for Suppliers
- Purchaser Pledge
- TechnicalSpecifications
- Fact sheet

- Furniture Survey
- List of FR-FreeFurniture
- Webinar







Purchaser Pledge Signers

The \$1 Billion Purchaser Power Challenge







Dignity Health.

































Resource Guide







Manufacturers with All Upholstered Furniture Flame Retardant-Free

Andreu World arcadia



Martin Brattrud

























Manufacturers with <u>Some</u> Upholstered Furniture Flame Retardant-Free















Prison Industry Major Furniture Provider























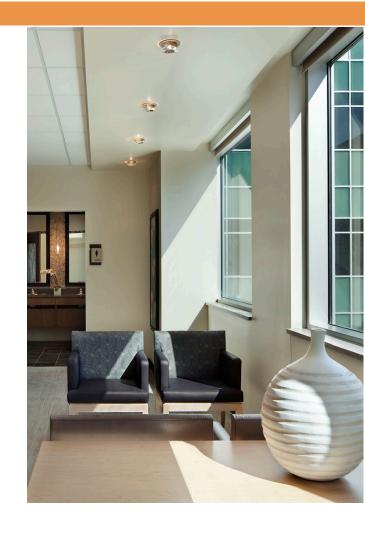
Oregon Corrections Enterprises





Why Make the Switch?

- Reduced toxics in environment
- Concern for employee, visitor and community health
- Potential cost savings
- Consistent with organizational mission/values
- Success story for sustainability report
- Businesses can influence the market
 faster than regulations or legislation







NEXT STEPS/Q&A

Call Judy Levin for assistance on implementation

Judy Levin, MSW

Center for Environmental Health Pollution Prevention Director

(510) 655-3900 ext. 316 judy@ceh.org





BLUE CROSS BLUE SHIELD OF MASSACHUSETTS



KYLE CAHILL, DIRECTOR, SUSTAINABILITY & ENVIRONMENTAL HEALTH

Safer Seating Webinar December 15, 2015

Kyle Cahill is Director of Sustainability & Environmental Health at Blue Cross Blue Shield of Massachusetts where he is responsible for the company's sustainability strategy, programs focused on improving the environmental health of members and MA communities, and sustainability collaborations within the broader health care industry.





Prior to Blue Cross Blue Shield, Kyle was Senior Program Officer at Oxfam America, leading the organization's work on poverty footprinting, a process for organizations to measure, analyze and improve their impacts on communities.

Prior to joining Oxfam, Kyle was Director of Corporate Engagement at Environmental Defense Fund (EDF), where he worked with the private sector on environmental initiatives addressing climate change, safer products and materials, water use and waste reduction.

Kyle earned his M.B.A. focused in social responsibility from the Isenberg School at the Univ. of Massachusetts, Amherst and his B.A. from Amherst College.

CORPORATE CITIZENSHIP

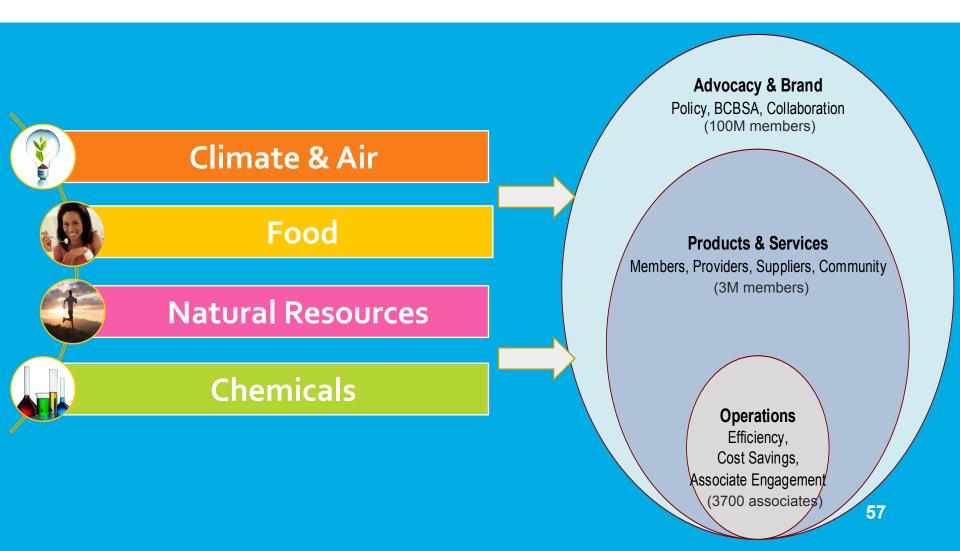


Continuously making positive decisions and participating in experiences that enhance your health and quality of life.

Healthy **Environments** Healthy **Healthy Active** Lifestyle Eating 56

SUSTAINABILITY MODEL





HEALTHY WORKPLACE OVERVIEW





Values

NEW BCBSMA HEADQUARTERS



Collaboration

Increased idea sharing and serendipitous innovation

Health

A workplace that supports positive choices and inner work-life

Sustainability

An efficient, green, non-toxic workplace

- Downtown Boston
- Approximately 1,000 employees
 - 330,000 sq. ft.
 - 14 floors
 - ENERGY STAR/LEED EBOM

FR-FREE CHALLENGES



- The design and furniture procurement process for the new Blue Cross office was well underway.
- Few furniture suppliers had been asked to fulfill a flame retardant-free furniture purchasing order of the size needed.
- The Boston fire code wasn't going into effect until 2015 and needed interpretation.
- No Boston companies of this size had purchased flame retardant-free furniture.

FR-FREE STRATEGY



- Engaged CEH and others on the issues around flame retardants and workplace health and safety
- Shared the issues and concerns with internal stakeholders
- 3. With the real estate team, reviewed the furniture purchasing timeline and options
- 4. Contacted furniture vendors, reviewed options and estimated cost and production impacts
- 5. Engaged the Boston Fire Department to review the fire code and latest regulatory policy interpretations
- 6. Consulted with office building owner to confirm that they were comfortable with the project
- 7. Engaged executive steering team and gained approval













RESULTS





- Approx. 3,000 chairs and over 1,500 work station cushions FR-free (assembly spaces not included)
- No additional cost and minimal changes
- First Boston office of its size to prioritize flame retardant chemicals in its office space
- Engaging with area universities, nonprofits, hospitals, architects and engineers in their efforts to go flame retardant-free
- 2020 goal of FR-free throughout the entire company

LESSONS LEARNED





- Communicating the ineffectiveness of flame retardant chemicals is as important as communicating concerns around their health effects
- Most sustainability professionals, property owners and real estate teams are not aware of the dangers of flame retardant chemicals
- More vendors than expected were able to offer flame retardant-free furniture
- Architects and designers are an important lever for the movement away from flame retardants and should be prioritized for collaboration

FLAME RETARDANT EFFORTS



- Signed the Center for Environmental Health's Purchaser Pledge
- 2. Purchased as much furniture as possible that meets a new CA 117-2013
- 3. Amended our company-wide furniture purchasing policy so that all future furniture purchases will be FR-free
- 4. Supported several screenings of the documentary *Toxic Hot Seat* across various cities and towns in MA in 2015
- 5. Testified at a recent Boston City Council hearing in favor of updating the City's fire code
- 6. Engaging sustainability leaders, real estate owners and the design community on the issue





UNDER PENALTY OF LAWTHIS TAG NOT TO BE REMOVED EXCEPT BY THE CONSUMER

ALL NEW MATERIAL
consisting of
100% POLYURETHANE FOAM PAD

Reg No CA 36865 (NJ)

Certification is made by the manufacturer that materials in this article are described in accordance with the law.

> Made by Humanscale 220 Circle Drive North, Piscataway, NJ 08854

Date of Delivery_

Made in U.S.A. of Imported and Domestic Materials

THIS PRODUCT MEETS THE REQUIREMENTS OF BUREAU OF ELECTRONIC AND APPLIANCE REPAIR, HOME FURNISHINGS AND THERMAL INSULATION TECHNICAL BULLETIN 117-2013

The upholstery materials in this product:
__contain added flame retardant chemicals
__contain NO added flame retardant chemicals

The State of California has updated the flammability standard and determined that the fire safety requirements for this product can be met without adding flame retardant chemicals. The state has identified many flame retardant chemicals as being known to, or strongly suspected of, adversely impacting human health or development.

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Q & A



KYLE CAHILL
DIRECTOR, SUSTAINABILITY & ENVIRONMENTAL HEALTH
BLUE CROSS BLUE SHIELD OF MASSACHUSETTS
KYLE.CAHILL@BCBSMA.COM

Polling Question #3

How does your organization most often purchase furniture?

Vote now.







Green Purchasing Best Practices: Office and Dorm Furniture

www.responsiblepurchasing.org/ purchasing_guides/furniture/ naspo_rpn_furniture_puchasing%20_gu ide.pdf





Before Bidding

Assess which products are needed:

- Create Furniture Contract Development Team
- Review historical purchases/future needs
- Determine performance (e.g. ergonomic, safety, flammability, or material requirements for the products
- Agree on procurement methods (e.g., existing cooperative price agreement, RFP, multiple award)
- Define scope of the contract
- Develop list of high-volume items for your contract





Develop Specifications

- Conduct a benchmarking assessment
 - State of California included multi-attribute sustainability requirements in its bid solicitation for institutional furniture
 - Eugene, OR has specifications for reupholstering/refinishing
- Assess applicable sustainability policies
- Create mandatory requirements
 - Positive attributes (e.g., acceptable certifications)
 - Negative attributes (e.g., prohibiting chemicals of concern)
- Develop sample bid (or market basket) list







Create Vendor Survey

Assess additional desirable attributes of PRODUCTS

- Products with post-consumer recycled content
- Products with wood that has been certified by FSC
- Products with additional certifications beyond those required
- Products with an HPD (or EPD)

Assess additional desirable attributes of VENDORS

- Vendors that offer furniture takeback (collection/recycling)
- Vendors that deliver products with sustainable transportation methods
- Vendors that ships products with sustainable packaging
- Vendors that manufacture products using renewable energy





Evaluate Bids



- Verify compliance of products with mandatory criteria by reviewing third-party certification information provided in bids (or check certifier list)
- Factor in additional health & environmental benefits along with product availability, performance, price, etc.
- Assign "points" to vendors based on answers to vendor questionnaire





SAFER SEATING/FURNITURE WEBINAR





Evaluation Type

Sustainable Product Guide

Search For Products

Bio-Based Material - Claim Validation
Building Indoor Air Quality Performance
Certification
ECOLOGO Certification
Environmental Product Declaration
Formaldehyde Free - Claim Validation

GREEN SQUARED

GREENGUARD Certification

GREENGUARD Gold Certification

Landfill Waste Diversion - Claim Validation

Mold Resistance - Claim Validation

Multi-attribute Sustainability Certification

Rapidly Renewable Materials - Claim

Product Category

Manufacturer / Brands

Sustainable Credits +

Keyword Search C Energy Efficiency Certified Products

Your Resource for Healthier, More Sustainable Products

This free resource connects you to third-party certified products you can trust. All products that have achieved certification/validation from UL Environment, including GREENGUARD and ECOLOGO Certified products are listed in this guide. UL Environment is not affiliated with any manufacturer or product that it certifies/validates.







SAFER SEATING/FURNITURE WEBINAR



Sustainable Product Guide

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Search For Products

Reset Search

Evaluation Type

Product Category

Adhesives/Sealants

Air Filters

Appliances
Bathroom Products

Building Construction Materials

Cabinetry

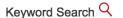
Ceiling Systems

Cleaning Products/Systems

Countertops

Doors

Electronics



Energy Efficiency Certified Products

20125 results found for **GREENGUARD Gold Certification**

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@NCE/@103S

GREENGUARD
GREENGUARD Gold



@NCE/@176

GREENGUARD Gold



@NCE/@203

GREENGUARD GREENGUARD Gold





Ask Your Suppliers to...

- Eliminate unhealthy products from their contracts
- Provide you with a list of compliant products
- Increase their offerings of healthy products
- Make them eligible for deepest discounts
- Clearly label sustainability attributes of their products
- Conduct training and outreach
- Provide "green" spend reports







Maximize Green Impact

- Before making a furniture purchase, check your state's surplus program or determine if existing furniture can be reupholstered and refinished instead.
- If ordering furniture with lighting systems, require LEDs.
- Promote availability of healthy furniture to contract users.
- Track your purchases of healthy and remanufactured/refurbished furniture to share your green purchasing successes.





Volume XXXVI

Healthy Purchasing for Health Schools Guide



Coalition for Healthier Schools

...providing the national platform and the forum for environmental health at school, since 2001...

Coordinated by Healthy Schools Network

Healthy Purchasing for Healthy Schools

A Guidance Memo

Green Cleaning + Five More Product Categories to Help Make Schools Healthier

www.healthyschools.org/documents/
CHS healthypurchasinghealthyschools.pdf





Thank you!





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