

# Kicking Toxics Out of the Work Place: Eliminating the Use of Unnecessary Flame Retardant Chemicals

Alameda County Green
Purchasing Roundtable 5/20/15

#### 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



### Flame Retardants





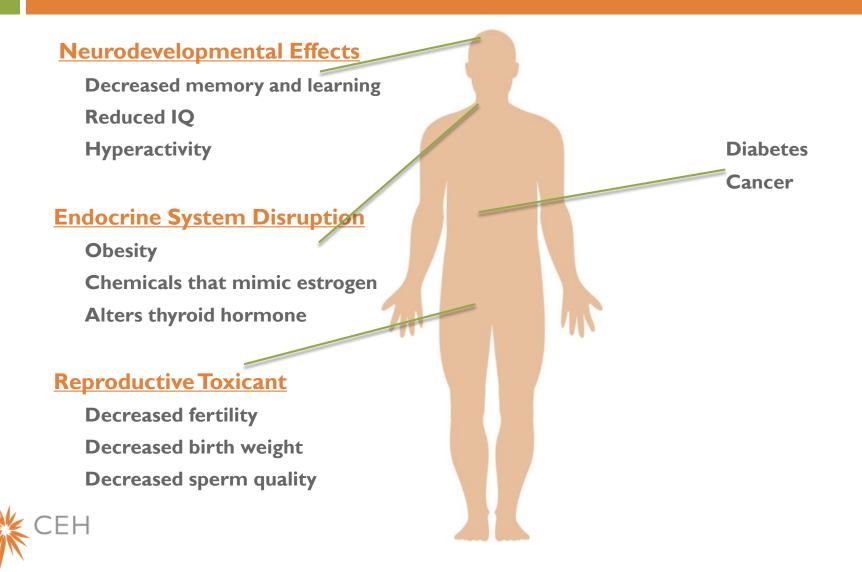
What are flame retardants? Inhibit ignition or spread of flames

# Where are flame retardants used?

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



#### **Health Effects of Flame Retardants**



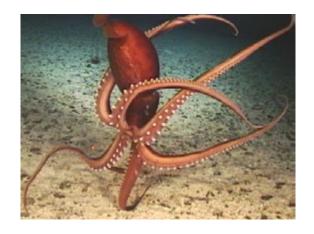
### Flame Retardants Are Ubiquitous













### How are We Exposed?

- Inhalation or ingestion of contaminated dust particles
- Ingestion from food, especially meat and dairy
- Occupational Exposure

#### **Unique to Children**

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





# 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







# Furniture Flammability Regulations



#### TB 133

#### NOTICE

THIS ARTICLE IS
MANUFACTURED FOR USE
IN PUBIC OCCUPANCIES
AND MEETS THE
FLAMMABILITY
REQUIREMENTS OF
CALIFORNIA BUREAU OF
HOME FURNISHINGS
TECHNICAL BULLETIN 133.
CARE SHOULD BE
EXERCISED NEAR OPEN
FLAME OR WITH BURNING
CIGARETTES

TB 133



# 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 I I 7-20 I 3** ≠ Flame Retardant Free

 New standard provides way to pass new test without FRs

#### <u>BUT</u>.....

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





# Flame Retardant Disclosure Bill SB 1019 (Leno)

- Require manufacturers to label furniture as to whether they contain or do not contain flame retardant chemicals.
- Children's products are not labeled





# What label to look for? SB 1019 Label

#### 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.





#### **Technical Bulletin 133**

- More expensive
  - \$15-100 more per chair
  - \$200-\$500 more per couch
- Flame retardants typically used in the foam, fabric and/or barrier
- Fewer design choices



### PURCHASER STRATEGY ADVISORY GROUP TOOLS



- Purchaser Pledge
- Letter to Suppliers
- Furniture Survey
- Technical Specifications/RFP
   Questions and Guidance
- Fact sheet





## "Purchaser Pledge" Signers

- Autodesk
- Blue Cross Blue Shield of MA
- City of Portland
- Dignity Health
- Facebook
- Genentech
- Hackensack University Medical Center
- HDR
- Healthy Building Science
- Kaiser Permanente

- Kay Chesterfield Reupholstery
- Multnomah County
- New Resource Bank
- One Workplace
- Perkins + Will
- San Francisco Dept. of the Environment
- Staples
- Yahoo!
- YOUR ORGANIZATION?





## Furniture Survey

#### **Sample Questions:**

- Does your company have upholstered seating products made entirely without added flame retardant chemicals including in plastic parts?
- If some or all of your seating products still contain added FRs, please indicate timeline for eliminating.
- How will you let purchasers know that your upholstered seating furniture products do not contain added flame retardant chemicals?



# Manufacturers who Have All Flame Retardant-Free Products

### HAWORTH<sup>®</sup>



WIELAND











 $L\ e\ l\ a\ n\ d$ 







D A V I D E D W A R D

# Manufacturers who Have <u>Some</u> Flame Retardant-Free Products















# Reupholster or Replace Cushions

Ask for flame retardant-free foam when:

#### Reupholstering:

- Prolongs life
- Reduces waste

or

#### Replacing cushions:

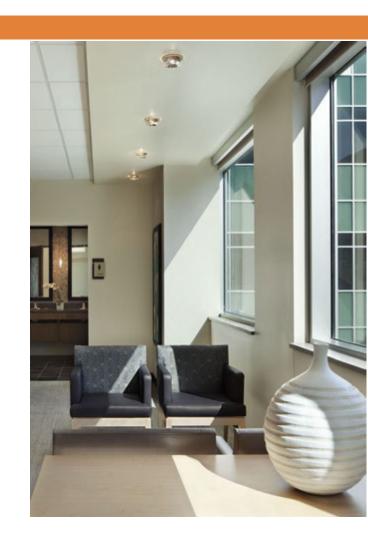
- Can remove vast majority of FRs
- Cost \$45-\$95 per cushion





### Why Make the Switch?

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



#### **NEXT STEPS?**

- □ Develop team of key stakeholders to build org. awareness and create an action plan
- Utilize existing tools to express your preference and ask for your suppliers' help in meeting your toxic reduction objectives
- ☐ Find out your org's furniture contract timeframe
- □ Prefer those companies who offer FR-free products
- □Advocate for your company to sign the purchaser pledge
- □Call CEH for assistance



