## Webinar Purchasing Fire-Safe Healthier Furniture: Great News & Concerns

October 19th 2021 @ 10 am pt / 1 pm et





### **Today's Speakers**

- Judy Levin, Center for Environmental Health
- Tonya Corcoran, CA Bureau of Household Goods and Services
- Lydia Jahl, Green Science Policy Institute
- Jay Fleming, Boston Fire Department
- Steve Kooy, BIFMA (Business and Institutional Furniture Manufacturers Association)
- Jen Jackson, San Francisco Department of the Environment

### **Furniture Flammability Regulations**









### Standards Don't Dictate <u>How</u> to Meet Test Requirements

- Furniture flammability standards are "performance tests"
- They are silent on how these tests are to be met
- Do not require or prohibit use of flame retardant chemicals
- Flame retardant chemicals are cheapest way to meet open flame test. Not needed for smolder test.



### **Open Flame versus Smolder Standard**

Small Open Flame Standard (TB117)



- Must withstand a small open flame on the interior foam
- Not found to have significant fire safety benefit
- Met **with** harmful flame retardants



- Must withstand most common ignition source, smoldering sources like cigarettes
- Prevents most fabric ignitions, protecting flammable foam
- Can be met without flame retardants

### New California Furniture Standard TB 117-2013

The Weight of Evidence



Addresses leading cause of fires

#### Reflects real life fire scenarios

Can meet with smolder proof fabrics and barrier if needed

#### TB 117-2013: Can Be Met Without The Use Of Flame Retardant Chemicals



### Policy Win Removal of TB 133: 1/22/2019

#### State of California Office of Administrative Law

In re:

Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation

**Regulatory Action:** 

Title 04, California Code of Regulations

Adopt sections: Amend sections: 1374, 1374.3 Repeal sections: AMENDED NOTICE OF APPROVAL OF REGULATORY ACTION

Government Code Section 11349.3

OAL Matter Number: 2018-1210-03

OAL Matter Type: Regular (S)

This action by the Bureau of Electronic and Appliance Report, Home Furnishings and Thermal Insulation amends furniture flammability standards by removing requirements of Technical Bulletin 133, entitled "Flammability Test Procedure for Seating Furniture For Use in Public Occupancies," dated 1991.

OAL approves this regulatory action pursuant to section 11349.3 of the Government Code. This regulatory action becomes effective on 1/22/2019. Unsprinklered public occupancy buildings may need to meet ASTM E1537







# FEDERAL REGISTER

The Daily Journal of the United States Government



#### Standard for the Flammability of Upholstered Furniture

A Rule by the Consumer Product Safety Commission on 04/09/2021

#### Mandated National Compliance with TB 117-2013 Beginning June, 2021

https://www.federalregister.gov/documents/2021/04/09/2021-06977/standard-for-the-flammability-of-upholstered-furniture

- Smoldering ignition test for upholstery fabric
- Flame retardants not needed (but not prohibited)
- Improves fire safety by stopping smoldering materials before they can ignite the foam

#### We Have Made Tremendous Gains...

- Congress has adopted a national smolder flammability standard
- Standard addresses major cause of fires and can be met without use of FR chemicals
- When FRs are removed from people's environments, their body burdens are reduced
- ✓ CA has repealed TB 133



# Why Are Efforts Underway To Bring Back An Open Flame Test?



#### Judy Levin, MSW

#### Center for Environmental Health

judy@ceh.org

www.ceh.org

#### **Tonya Corcoran**

Assistant Director/Deputy Bureau Chief California Bureau of Household Goods and Services (BHGS) Contact Information: 916.999.2080 <u>Tonya.Corcoran@dca.ca.gov</u>



**2012 to 2014** - Appointed by former Governor Edmund J. Brown and served as Bureau Chief

2014 to 2017 - Deputy Director, Department of Consumer Affairs

2017 to Present - Deputy Registrar, California Contractors State License Board

July 29, 2021 - On loan to BHGS until a new Bureau Chief is appointed.

#### **Topics of Discussion**

#### Background

- □ Regulatory Rulemaking Process and Findings: TB 117-2013
- Barrier Study and Cost Benefit Analysis
- □ Assembly Bill 2998 (Bloom, Chapter 924, Statutes of 2018)
- Combined Label Requirement: 16 CFR part 1640 TB 117-2013

#### Background: California Upholstered Furniture Flammability Standard

Bureau communicates flammability standards in the form of Technical Bulletins. The standards are designed to limit or slow the propagation of fire and provide an opportunity for detection and escape.

- 1972: Assembly Bill 2165 (Burton) signed requiring the Bureau to establish upholstered furniture flammability standards
  - Required all upholstered furniture sold in California be fire retardant, as defined by the Bureau, and labeled accordingly.
- 1975: TB 117 developed/adopted
  - Open flame testing standard of interior filling materials.
- June 2012: Governor Brown directed the Bureau to review the flammability standard to reduce use of toxic flame retardants and ensure fire safety

#### Regulatory Rulemaking Process: TB 117-2013

- Initial/Final Statement of Reasons
- Public Comment
  - ✓ Workshops
  - Stakeholders Meetings
  - Public Hearings
- Studies and Data Relied Upon
- Cost Benefit Analysis
- Precision and Bias Study
- California Environmental Quality Act (CEQA) Evaluation

#### Regulatory Rulemaking Findings: TB 117-2013

#### Bureau 2013 Findings:

- TB 117 open flame test of interior filling materials did not adequately address the flammability performance of the upholstery cover fabric nor address its interactions with the underlying filling materials whether by open flame or smoldering source.
- Flame retardant foam can actually increase smolder propensity.
- CPSC concluded that upholstery cover fabrics play a more important role in fire behavior performance than filling materials.
- In 2013, California was the only state with a mandatory flammability standard for residential furniture. National fire incidents related to upholstered furniture had dropped by 80 percent since the standard was adopted. The decrease may be attributed to the following:
  - Child resistant lighters
  - Self-extinguishing cigarettes
  - Furniture manufacturers compliance with voluntary upholstered furniture flammability standards
  - Candle industry compliance with voluntary fire-safe candle standards
  - Residential smoke alarms and fire sprinkler requirements
- Bureau to conduct a two-year barrier study

#### 2018 Barrier Study and Cost Benefit Analysis

#### **BUREAU: 2018 Barrier Study**

- Proposed Standard: Bench-Scale Open Flame Barrier Test
- Summary Report of Barrier Research
- Cost Benefit Analysis Prepared by CSUS
- August 2018 Advisory Council Meeting

#### CALIFORNIA STATE UNIVERSITY, SACRAMENTO (CSUS): Cost Benefit Analysis

- CSUS Report: A Benefit Cost Analysis on the Use of Fire Barriers in Upholstered Furniture.
- Conclusion Summarized in Report and PowerPoint Presentation: It does not support the adoption of the bureau proposed fire barrier standard.

#### www.bhgs.dca.ca.gov/bureau\_activities/index.shtml

#### **CSUS: Cost Benefit Analysis**

* Table 1. Combined Upholstered Furniture Fire Scenarios for Residential Buildings in California								
Year	Incident Count	Property Loss <sup>1</sup>	Content Loss <sup>1</sup>	Civilian Injuries	<b>Civilian Fatalities</b>			
2010	20	\$1,150,949	\$205,647	1	0			
2011	31	\$1,279,238	\$553,167	8	1			
2012	17	\$468,183	\$82,977	1	0			
2013	28	\$1,345,063	\$520,045	0	0			
2014	12	\$987,017	\$302,672	0	0			
2015	13	\$379,574	\$101,570	0	1			
2016	13	\$510,963	\$159,900	2	0			
Average	19	\$874,427	\$275,140	2	0			

Valuations are in constant 2017 dollars

Data Source: National Incident Reporting System Data

\*See: Slide 7 CSUS Cost Benefit Analysis PowerPoint Presentation

www.bhgs.dca.ca.gov/bureau\_activities/index.shtml

#### Assembly Bill 2998

- ► AB 2998 (Bloom, Chapter 924, Statutes of 2018)
- On or after January 1, 2020 Prohibits flame retardant chemicals at levels above 1,000 parts per million in California for the following <u>covered</u> products:
  - Juvenile products
  - Upholstered furniture
  - Foam in mattresses
- Authorizes the Bureau to issue a fine for non-compliance
- FAQ's: www.bhgs.dca.ca.gov/forms\_pubs/ab2998\_faq.pdf

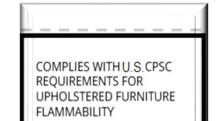
#### TB 117-2013 Combined Label Example

#### What are the labeling requirements?\*

Under 16 CFR part 1640, upholstered furniture subject to the standard must have a permanent label with the language: "Complies with U.S. CPSC requirements for upholstered furniture flammability." CPSC staff recommends that the certification statement be conspicuous and legible. The statement should be at least 1/8-inch high and not smaller than other text on the label; it should be in black text on a white background and surrounded with black border. The label may be a separate label, or it can be added to the bottom of an existing California TB 117-2013 label required by <u>SB-1019</u>. The required statement must appear on the front of the label in English and cannot be on the back side. However, additional languages may be on the back side of the label.

- Bureau of Household Goods and Services -FAQ for Technical Bulletin 117-2013
- BHGS Contact: Sue Xu at <u>Sue.Xu@dca.ca.gov</u>

#### Separate Label



#### Combined Label

NOTICE THIS ARTICLE MEETS THE FLAMMIBILITY REQUIREMENTS OF CALIFORNIA BUREAU OF HOUSEHOLD GOODS AND SERVICES TECHNICAL BULLETIN 117-2013.

CARE SHOULD BE EXERCISED NEAR OPEN FLAME OR WITH BURNING CIGARETTES.

THE UPHOLSTERY MATERIALS IN THIS PRODUCT: \_\_\_\_CONTAIN ADDED FLAME RETARDANT CHEMICALS \_\_\_\_CONTAIN NO ADDED FLAME RETARDANT CHEMCIALS

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.

Complies with U.S. CPSC requirements for upholstered furniture flammability

#### GREEN SCIENCE POLICY INSTITUTE

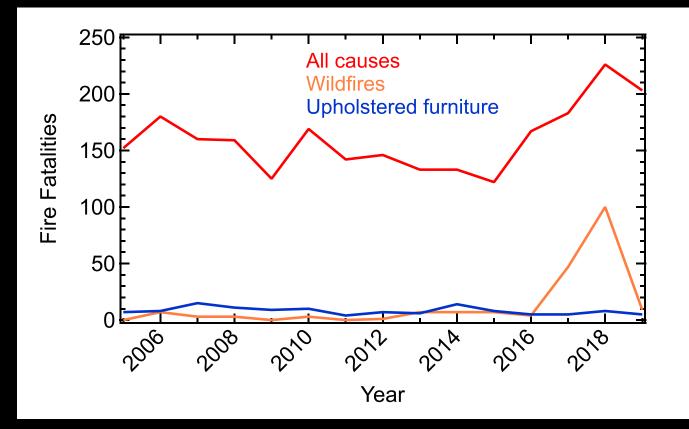
#### Are furniture fires increasing or decreasing? Good news & addressing false claims

Lydia Jahl, PhD Green Science Policy Institute October 19, 2021

### Are fire deaths increasing in California?

Claim: Fire deaths have increased since California updated its furniture flammability standard in 2014.

Fact: Increases are due to wildfires, not fires originating in upholstered furniture.



Graph data from: Department of Forestry and Fire Protection, Office of the State Fire Marshal, California Incident Data and Statistics Program, Annual Fire Fatality Trend data 2005-2019. Reported 6/15/2021.

### Fire deaths are decreasing across the US

- Decrease of 50% in home fire deaths since 1980
- < 10 fire deaths per year in educational, healthcare, or detention facilities
- Most fires start in kitchens or cooking areas
- Smoking materials are still a major contributor to fire deaths
- Sprinklers greatly improve fire safety



Nearly 3 out of every 5 home fire deaths were at homes with missing or malfunctioning smoke alarms.

### Are newer flame retardants safer?

Claim: Harmful flame retardants (e.g. PBDEs) are not in use anymore; their replacements are safe.

Facts:

- Similar halogenated flame retardants are still in use
- Newer replacements have similar health harms and are increasingly being found in dust and in us

Flame retardants should be proven safe and effective before they are used. Adding flame retardants removes products from the circular economy.

### Conflicts of interest?

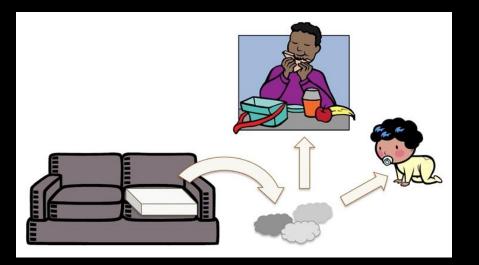
Flame retardant manufacturers & testing labs

- "It is safest to meet both an open flame AND smolder standard"
- Furniture barriers *can* be effective, but:
  - Flame retardants are a less expensive way to meet open flame standards
  - Barriers are difficult and costly to make



# What is the impact of flame retardants in furniture?

- No overall fire safety benefit of adding flame retardants
- Flame retardants can migrate out of furniture
- People in areas with open flame standards have higher blood levels of toxic flame retardants



 Exposure associated with cancer and neurological, reproductive, immune, & developmental problems PURCHASING FIRE-SAFE HEALTHIER FURNITURE (What questions should be considered?)

Joseph Fleming

(Former Fire Marshal, Currently a Deputy Chief - BFD)

#### "AMERICA BURNING" - 1972

The hazards of flames have been studied and regulated to some extent, but recognition of the hazards of smoke and toxic gases has come belatedly. Ironically, efforts to make materials fire-retardant may have increased the life hazard, since the incomplete combustion of these materials often results in heavy smoke and toxic gases.

WHAT HAPPENED?

#### "ANALYZING THE EFFECTIVENESS OF FIRE PROTECTION STRATEGIES" NFPA FIRE JOURNAL, 1979

"Two alternative strategies for reducing the nation's fire losses were reviewed here. They are mandatory standard for upholstered furniture, and 2) a smoke detector requirement for all residential households. The results indicate that the smoke detector requirement is a cost effective strategy, in contrast to the proposed mandatory standard for upholstered furniture."

#### A COST-BENEFIT ANALYSIS ON REGULATING FOR FIRE RETARDANTS IN FURNITURE

NZIER Report 26, September 2019

*Fire-retardant foam is often designed to pass a test* involving a small ignition source, such as a cigarette, and can be ineffective if the ignition source is larger (Blum 2019). Other research also indicates that, once on fire, furniture treated with fire retardants produces more toxic smoke than untreated furniture (McKenna et al. 2017), and smoke is one of the main causes of firerelated deaths (Lilley, McNoe and Duncanson 2018). Furthermore, only some fires begin on foam furniture. Foam furniture is not listed as a common first ignited material in research on house fires, suggesting that fewer than 3% of fires begin this way

#### COSTS AND BENEFITS OF REGULATING FIRE SAFETY FURNITURE IN NZ BRANZ, MARCH 2003

They ran computer models of residential fires.

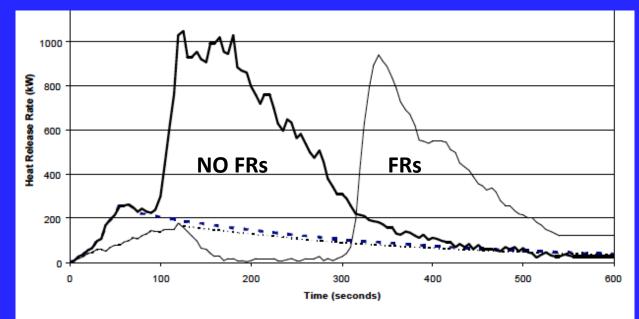


Figure 5-3. Simulated Heat Release Rate of single-seater chairs constructed of standard polyurethane foam with polypropylene cover (L21) and of fire-retardant polyurethane foam with wool cover (J22), by time.

FRs and Wool Covering may delay flashover but ...

#### DATA FROM NZ STUDY

Table 5-1. Chair L21 (standard polyurethane foam with polypropylene cover), no sprinkler

	Time to untenable condition (sec)						
Tenability Criterion	Lounge 4	Hall 1	Bed 2				
Visibility < 2 m	(35)	50	80				
@ 2 m above floor	X						
FED inc (gases)	>600	>600	>600				
FED inc (rad)	(140)	250	>600				
Smoke alarm activation	20	35	45				
time	ASET = 15 secs (35-20)						
Table 5-3. Chair J22 (fire-retardant polyurethane foam with wool cover), no sprinkler							
Visibility Limit reached 10 seconds earlier Time to untenable condition (sec)							
Tenability Criterion	Lounge 4 Heat Flu	ux Limit is Hall 1	Bed 2				
Visibility < 2 m	25 delayed	by FRs 55	90				
@ 2 m above floor							
FED inc (gases)	>600	>600	>600				
FED inc (rad)	D inc (rad) (360)		>600				
Smoke alarm activation	13	29	47				
time	ASET = 12 secs (25-13)						

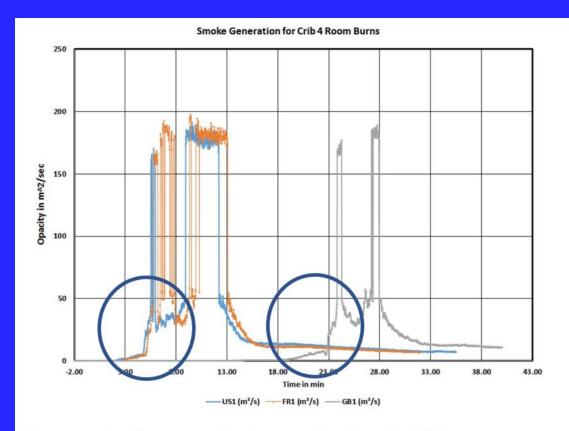
FRs may reduce the Heat Release Rate growth rate but they may also produce more smoke quicker causing occupants to be trapped earlier.

#### DATA FROM NZ STUDY

Table 7-1. Expected scenario outcomes at maximum effectiveness									
Scenario	Expected No. deaths	Expected No. injuries	Expected property loss \$	Expected NZFS costs \$	Lives saved	Injuries prevented	Property saved \$	NZFS costs averted \$	
1 Base case (status quo)	22	249	73.01 m	25.83 m	0	0	0	0	
2 Furniture regulation	15	174	70.60 m	24.98 m	7	75	2.41 m	0.85 m	
3 Smoke alarms regulation	13	152	53.84 m	25.83 m	9	97	19.17 m	0	
4 Furniture + smoke	9	106	52.07 m	24.98 m	13	143	20.94 m	0.85 m	

Most of the benefit is achieved with smoke alarms. The New UL217 Alarms should be more effective than assumed here. Why not try the less expensive option that may prove to be more effective at reducing fire risk and safer for health.

#### Comparative Room Burn Study of Furnished Rooms from the UK, FR and the US NFPA Fire Technology (March 2020)





The smoke production is almost identical, although delayed in the "British (FR) Room. Similar to the NZ data it may produce similar **ASET (Available Egress** Times), thereby producing no benefit for sleeping occupants. (In this study no smoke alarms. were used.)

#### THERE MAY BE MULTIPLE RISK/BENEFIT DECISIONS

- For upholstered furniture, in which the health exposure is great and the fire benefit is low or zero, the answer is likely NO FR.
- To protect fire alarm wiring inside the walls of a high rise building which the exposure is low and the fire benefit is high, the answer may by USE FR.
- For airplanes, some material may justify the use of FR and for passengers the exposure is infrequent, but what about crew and staff?

A fire safety benefit in a few cases does not imply a fire safety benefit in all cases

### The North American Furniture Trade Association

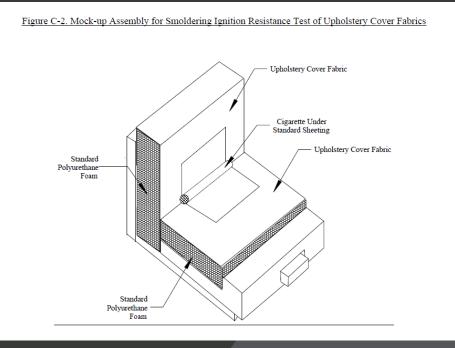
#### Steve Kooy Technical Director Health and Sustainability

# BIAMA

BUSINESS + INSTITUTIONAL FURNITURE

#### Two Tests – Two Impacts





Open Flame (TB133) ~80 second burn Smolder (TB117) Cigarette burns full length

#### Barrier Concerns

- Fire fighters suggest extra FR chemicals create more problems
- Toxicity concern
- Reduce performance and comfort
- Increase costs
- Fire Statistics, especially commercial / public spaces do not justify the need

# SOFFA Act

- Safer Occupancy Furniture Flammability Act (SOFFA) part of the December 2020 omnibus bill
- Renamed the "COVID-19 Regulatory Relief and Work From Home Safety Act"
- Instructs the Consumer Product Safety Commission (CPSC) to establish conformance to California TB117-2013 as a national standard.
- June 25, 2021: TB117-2013, is THE flammability standard
- Compliant Labeling Required: June 25, 2022,
  - Applies to upholstered furniture manufactured, imported, or reupholstered on or after that date.

NOTICE THIS ARTICLE MEETS THE FLAMMIBILITY REQUIREMENTS OF CALIFORNIA BUREAU OF HOUSEHOLD GOODS AND SERVICES TECHNICAL BULLETIN 117-2013.

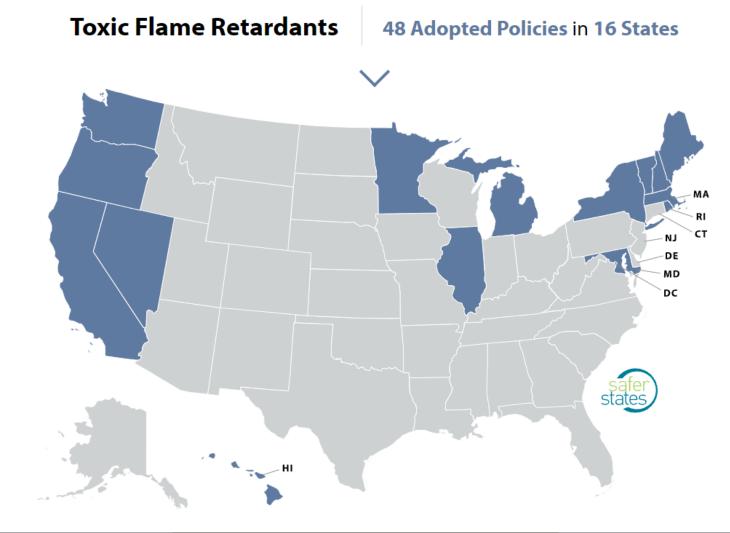
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Complies with U.S. CPSC requirements for upholstered furniture flammability

# Legislation



Source: Safer States

# **Business Office Fires**

- California: "A security and alarm monitoring company employee was using a torch to heat illegal drugs in his second-floor office workstation when he inadvertently ignited combustibles on his desk."
- Michigan: "A 39-year old man was killed in a cigarette fire in a church. The man ... had been living temporarily in one of the offices. The fire began when a cigarette ignited rubbish in a trash can in a first floor coat room."
- There are extremely few deaths in Business Offices and the presenter did not find any examples where a chair was involved in a fatality

U.S. Structure Fires in Office Properties. NFPA (August 2013)

# LEVEL<sup>®</sup> by BIFMA

• e3 Furniture Sustainability Standard

• 3rd Party Certification

• LEVEL<sup>®</sup> Registry of Certified Products







#### Targeted Chemical Elimination (7.4.4)

#### **Restrictions & Public Disclosures to:**

• Flame retardants

#### Does <u>Not</u> Contain:

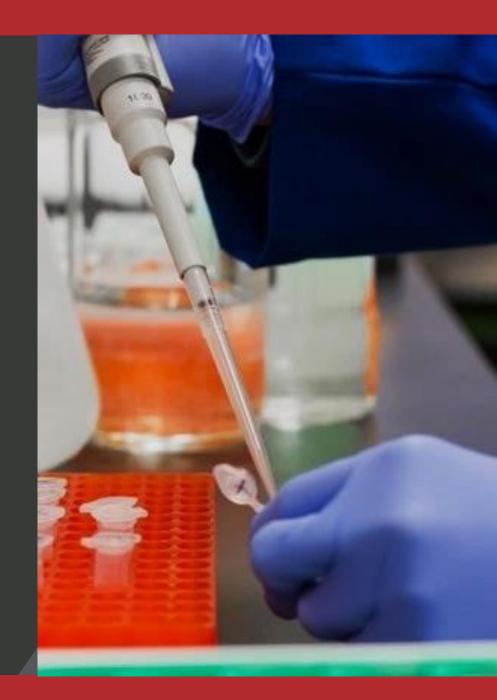
- Per- & poly- fluorinated compounds  $\geq$  100 ppm
- Chemical antimicrobials\*
- Triclosan & triclocarban

#### **Contains:**

• Les than 1% polyvinyl chloride (PVC) by weight

#### Formaldehyde & other VOCs

• Low-Emitting Furniture aligned with LEED & WELL



#### Steve Kooy Director Health & Sustainability skooy@bifma.org



sr Reach

BEMA



# Eliminating Flame Retardants in Furniture

#### Jen Jackson, Toxics Reduction Program Manager



# We know flame retardants are harmful to us...



#### Health Concerns

- Disrupt hormones
- Disrupt brain development
- Disrupt learning, memory and attention
- Lower IQ
- Cause reproductive issues
- Cancer

#### Environmental Concerns

- Persistent
- Bioaccumulative

### ...and firefighters face even greater risks...



Increased risk of:
Multiple myeloma
Non-Hodgkin's lymphoma
Prostate and testicular cancer
Breast cancer

# yet we need fire safety.





#### False dilemma?







"TB 117-2013 addresses the predominant source of upholstered furniture fire deaths and injuries which are smoldering materials. Further, TB 117-2013 addresses the flammability performance of the upholstery cover fabric which is where fires begin, whereas the current standard predominantly focuses on open flame testing of filling materials..."

- CA Bureau of Household Goods and Services





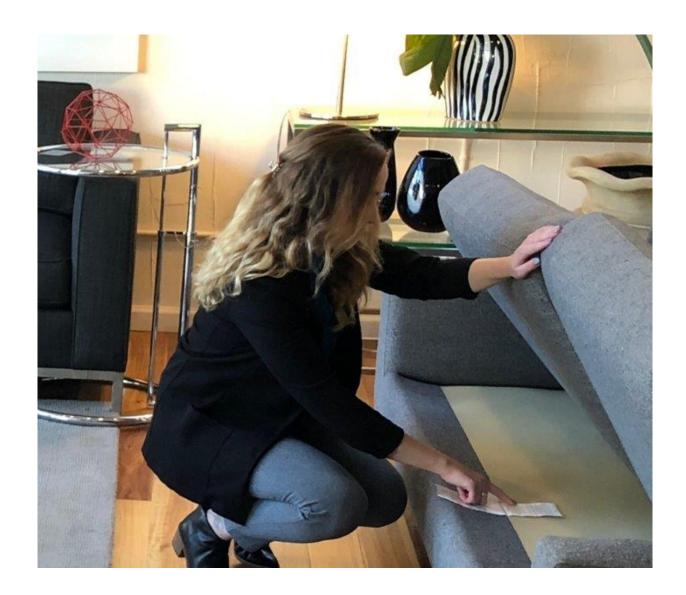
# SB1019 Labeling Requirement



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 OPEN FLAME 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.



## Retailer Pledge Campaign





Help your customers breathe easy by offering furniture without flame retardant chemicals.

Get listed as a business offering furniture without flame-retardant chemicals.

# Local Ordinance Banning FRs in Furniture - 2017





## 2020 Citywide Furniture Regulations

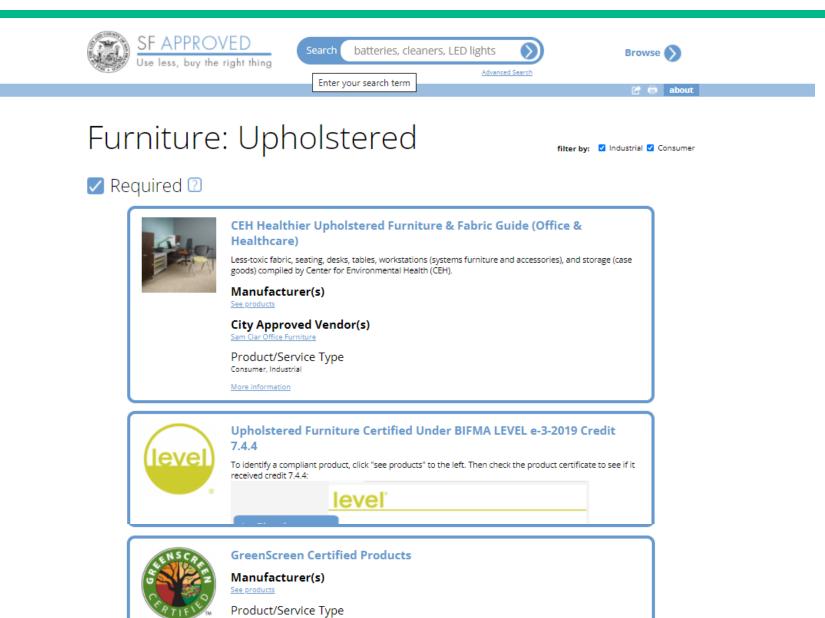


No Flame Retardants! (+ NO PFAS, Antimicrobials VOCs/Formaldehyde Heavy Metals, or PVC)

#### Tools and Resources for Purchasers

Industrial







#### Regulation #SFE-13-06-PPO Approved Alternative Products for: Furniture (Upholstered)

#### PURCHASING REQUIREMENTS FOR CITY DEPARTMENTS

1. Upholstered furniture, including fabrics used for the upholstery and reupholstery, must comply with restrictions on the following chemicals of concern. Upholstered furniture products that comply with these restrictions can be identified by consulting the Center for Environmental Health's "Guide to Healthier Office Eurniture," ceh.org/products/office-furniture. Any furniture that meets the GreenScreen Certified standard for Furniture and Fabrics Version 1 or higher at the Bronze level and is listed on the GreenScreen Furniture and Fabric Certification list of certified products is considered compliant with these specifications. Salvaged and refurbished furniture more than one-year old at the time of reuse is also considered compliant, provided any site-applied paints, coatings, adhesives, and sealants meet the following requirements.

These criteria are incorporated into the ANSI/BIFMA e3-2019 Furniture Sustainability Standard, as credit 7.4.4 Targeted Chemical Elimination. Meeting this ANSI/BIFMA credit is considered equivalent to meeting these specifications.

8

9

В

А

# **Healthier Furniture**

A Guide for Purchasing Furniture Free of the Hazardous Handful Chemicals

The Center for Environmental Health (CEH) created this guide to help furniture purchasers identify safer furniture and fabrics without key chemicals of concern.

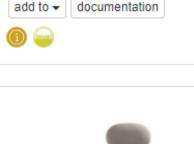
The products in this document have been self-reported by the manufacturer as being compliant with restrictions for the following chemicals/materials of concern (aka the "Hazardous Handful"):

- Formaldehyde and other Volatile Organic Compounds (VOCs) emissions
- Antimicrobials
- Flame retardant chemicals
- Polyvinyl chloride (PVC)
- Per- and poly-fluorinated chemicals used as stain/water/oil resistant treatments
- Furniture products are listed on sheet/tab 2 and fabrics are listed on sheet/tab 3.

Last updated 10/12/2020

#### level PRODUCTS PROJECTS Sign Up/Login + Category Product Name (A-Z) v Subcategory Search products by name, brand, category Q Sustainability Criteria 1 - 18 of 914 results Material Chemistry Bio-based Renewable Materials Extended Product Responsibility Life Cycle Assessment Low Emitting Recycled Content - LEVEL LEVEL 1 (163) LEVEL 2 (655) Nightingale Corporation Allsteel Inc. Spec Furniture LEVEL 3 (96) #19® 2000 Series Seating 24/7hd High Back Intensive Task Category Seating Category Seating Category Seating + Brand Subcategory Conference/Executive Subcategory Guest/Side Subcategory Task add to - documentation add to - documentation add to - documentation + Certifier **() (i**) 6 📟 - Rating Systems













#### Demonstrate your commitment to environmentally preferable products



#### Find Certified Products



**Get Certified** 



GreenScreen Certified™ -



Read more about GreenScreen Certified™

GreenScreen Certified™ Standard for Firefighting Foam v.2

GreenScreen Certified<sup>™</sup> Standard for Furniture and Fabrics

#### Health Care Without Harm



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#### Jen Jackson

## **Toxics Reduction Program Manager** SF Department of the Environment (415) 355-5005 jen.jackson@sfgov.org



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A Department of the City and County of San Francisco

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# **Speaker Contact Information**

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Thank you for your participation!