

Supporting Information for

Results from Screening Polyurethane Foam Based Consumer Products for Flame Retardant Chemicals: Assessing Impacts on the Change in the Furniture Flammability Standards

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Number of pages: 5

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Supporting Information includes:

1. A table providing the chemical names, acronyms, CAS numbers and chemical structures of the flame retardants included in foam screening.
2. A figure showing detection frequencies of flame retardants in all categories included in the study.

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Table S1. Flame retardants included in foam screening.

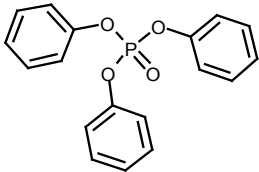
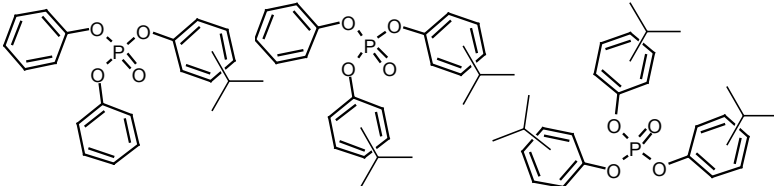
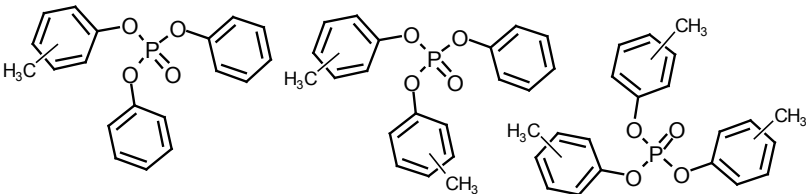
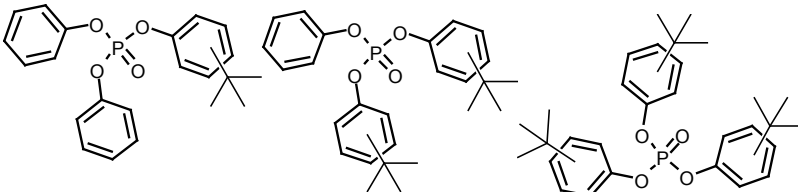
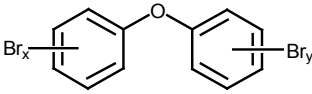
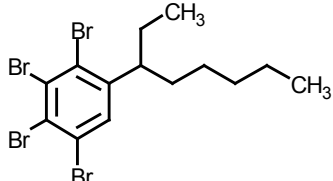
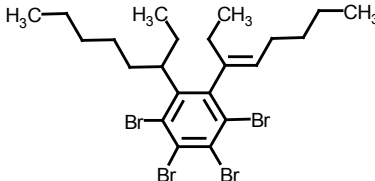
Compound	CAS	Structure	Flame Retardant Products
Non-halogenated organophosphates			
Triphenyl phosphate (TPHP)	115-86-6		FireMaster® 550, TBPP, MPP
Isopropylated TPHPs (various isomers)	e.g., 55864-04-5, 55864-07-8, 2502-15-0		FireMaster® 550
Methyl phenyl phosphates	e.g., 78-31-9, 34909-69-8, 78-32-0		MPP
t-butylated phenyl phosphates	e.g., 981-40-8, 115-87-7, 78-33-1		TBPP

Table S1. Flame retardants included in foam screening (cont.)

Compound	CAS	Structure	Flame Retardant Products
Chlorinated organophosphates			
tris(1,3-dichloro-2-propyl) phosphate (TDCIPP)	13674-87-8		TDCIPP
tris(1-chloro-2-propyl) phosphate (TCIPP)	13674-84-5		TCIPP
tris(1-chloro-2-ethyl) phosphate (TCEP)	115-96-8		Antiblaze V6 (present as an impurity)
2,2-bis(chloromethyl) propane-1,3-diyl-tetrakis(2-chloroethyl)bis(phosphate) (V6)	38051-10-4		Antiblaze V6
2,2-bis(chloromethyl)propane-1,3-diyl tetrakis(1-chloropropan-2-yl) bis(phosphate) (U-OPFR)	1047637-37-5		trade name unknown

Table S1. Flame retardants included in foam screening (cont.)

Compound	CAS	Structure	Flame Retardant Products
Bromodiphenyl ethers			
e.g., BDE-47, BDE-99, BDE-100	e.g., 5436-43-1, 60348-60-9, 189084-64-8	 <p style="text-align: center;">(x + y = 4 to 6)</p>	PentaBDE
Other Br FRs			
2-ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7		FireMaster® 550
bis(2-ethylhexyl-2,3,4,5-tetrabromophthalate (TBPH)	26040-51-7		FireMaster® 550

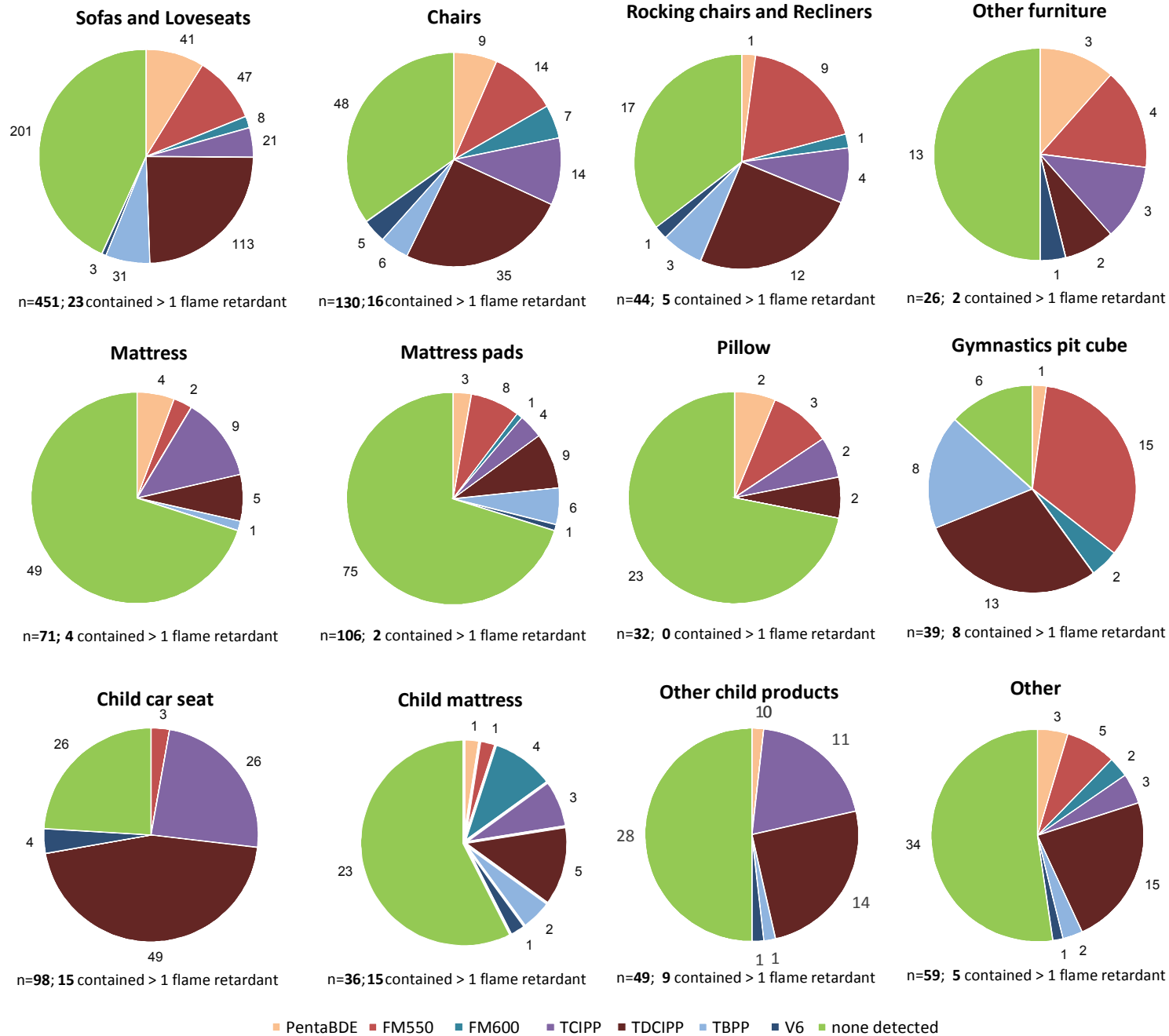


Figure S1. Detection of FRs in all product categories.