

## The Washington State's New Flame Retardant Law to be effective in July 2017

Beginning 1 July, 2017, the Toxic-Free Kids and Families Act in the U.S. State of Washington, which restricts the use of toxic flame retardants in certain types of consumer products, has come into effect.

Under the Act, five flame retardants as listed in Table 1 have been identified as chemicals of high concern to children. Children's products and residential upholstered furniture containing any of these five flame retardants in amounts exceeding 1,000 parts per million (ppm) in any product component are not allowed for sale or distribution in the Washington State.



**Table 1: Flame retardants subjected to the Toxic-Free Kids and Families Act**

Flame Retardant	Restricted Content	CAS No.	Effective Date
Decabromodiphenyl ether (Deca-BDE)	≅ 1,000 ppm	1163-19-5	1 July, 2017
Hexabromocyclododecane (HBCD(HBCDD))		25637-99-4	
Tetrabromobisphenol A (TBBPA)		79-94-7	
Tri(1,3-dichloropropyl)phosphate (TDCPP)		13674-87-8	
Tris(2-chloroethyl) phosphate (TCEP)		115-96-8	

The scope of children's products and residential upholstered furniture covered by the Act is as follows:

- Children's product include toys, cosmetics and jewelry intended for children under 12 years old, childcare articles, clothing and portable infant or child safety seat designed to attach to an automobile seat.
- Residential upholstered furniture refers to residential seating products intended for indoor use in a home or other dwelling intended for residential occupancy that consists in whole or in part of resilient cushioning materials enclosed within a covering consisting of fabric or related materials, if the resilient cushioning materials are sold with the item of upholstered furniture and the upholstered furniture is constructed with a contiguous upholstered seat and back that may include arms.

The list of flame retardants to be banned is expected to expand. The Department of Ecology, as required by the Act, will evaluate the risks of six additional flame retardants as listed in Table 2 and work with the Department of Health to make recommendations to the Legislature on whether use restrictions are required.

**Table 2: Flame retardants under consideration as chemicals of high concern to children**

Flame Retardant	CAS No.
Isopropylate Triphenyl Phosphate (IPTPP)	68937-41-7
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7
Bis(2-ethylhexyl) tetrabromophthalate (TBPH)	26040-51-7
Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5
Triphenyl phosphate (TPP)	115-86-6
Bis(chloromethyl)propan-1,3-diyltetrakis(2-chloroethyl)bisphosphate (V6)	385051-10-4

**With advanced testing equipment and a team of professionals, STC can assist you in meeting the regulatory requirements for flame retardant content in consumer products.**

For more information, please contact our Chemical, Food and Pharmaceutical Products Division at

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