



Washington State Flame Retardant Bill will be effective from July

17 Feb. 2016, the Governor of the State of Washington passed the House Bill 2545 concerning about 5 flame retardant content in children's products and residential upholstered furniture;

From 1 July 2017, children's products and residential upholstered furniture containing more than 0.1% of below five flame retardants in any component are not allowed to sell, offer for sale or distribute in the Washington State:

Restricted substances	CAS No.	Limit
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	< 1,000 ppm
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	< 1,000 ppm
Decabromodiphenyl ether (DecaBDE)	1163-19-5	< 1,000 ppm
Hexabromocyclododecane (HBCD)	25637-99-4	< 1,000 ppm
Additive Tetrabromobisphenol A (TBBPA)	79-94-7	< 1,000 ppm

Restricted products including:

Children's products:	Products intended for use by children under 12 years old: toys, cosmetics, jewelry, childcare articles, clothing and portable infant/ child safety automobile seats.
Residential upholstered furniture:	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.



Children's products



Residential upholstered furniture



Above requirements will be effective from 1 July 2017.

At the same time, the Act also requires the Department of Ecology to evaluate additional below six flame retardants and make recommendations to the Legislature on whether to restrict their uses in consumer products.

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

The Department of Ecology should make advise to related department if above 6 flame retardants should be restricted.

HCT SOLUTIONS:

Flame retardants are mainly used in plastic, textile and foam to improve the product's flame retardant properties, the above three should be regarded as a key control object in testing.

HCT advises:

Enterprises should select the accessible parts in children's products and residential upholstered furniture to arrange flame retardant test, HCT could arrange mix or individual test to the components according to customer requirements.

HCT had published a newsletter concerning about above update, link in Chinese as below:

[HCT 201608-02 newsletter : Washington Flame Retardant Bill on children's products and residential upholstered furniture](#)

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