



Appendix C – EU Directive 2009/48/EC New Limits for Chemical Substances in Specific Toys

New specific limits have been set for chemicals in toys intended for use by children under three years old, and toys intended to be placed in the mouth.

Phosphate esters TCEP, TCPP and TDCP are flame-retardants also used as plasticizers in polymers. TCEP is classified under Regulation (EC) No 1272/2008 as carcinogenic, category 2. TCPP and TDCP have been evaluated in toxicological studies by the Scientific Committee on Health and Environmental Risks (SCHER) as substances of potential concern for carcinogenicity.

Bisphenol A is used as a monomer in the manufacture of some polymeric materials largely used in toys, and is classified under Regulation (EC) No 1272/2008 as toxic for reproduction, category 2.

Beginning **December 21, 2015**, specific limit values for chemicals used in toys, intended for use by children under 36 months or in other toys intended to be placed in the mouth, is adopted in accordance with Article 46(2) of Directive 2009/48/EC:

Substance	CAS Number	Limit value
TCEP	115-96-8	5 mg/kg (content limit)
TCPP	13674-84-5	5 mg/kg (content limit)
TDCP	13674-87-8	5 mg/kg (content limit)
Bisphenol A	80-05-7	0,1 mg/l (migration limit) in accordance with the methods laid down in EN 71-10:2005 and EN 71-11:2005

UL testing solutions help verify the compliance of your products with the new limits. Our continued global investment in facilities and services includes the expansion of chemical management services and testing solutions to help toys manufacturers reduce and optimize chemical testing.

UL experts can help verify product quality as well as compliance with regulatory requirements to help prevent potential danger to children and protect brands.



For more details on how UL can help you bring regulatory compliant, safe, and quality products to market, contact ToyTeam@ul.com.