

Toy Safety Directive 2009/48/EC (TSD)

The Toy Safety Directive 2009/48/EC (TSD) provides harmonized EU-wide standards on physical and mechanical properties, flammability, chemical and electrical properties, etc. of toys.

The new TSD 2009/48/EC requires a series of safety assessments, including the Chemical Safety Assessment(CSA). It broadens the requirements of chemical properties, e.g. migration limits, to 19 chemical elements. The migration limits for these chemical elements are considerably lower than under the old TSD. In addition, certain fragrances, CMR substances and nitrosamines are restricted. Toys for children under 3 years and toys for mouth contact have to fulfil Article 3 of the Framework Regulation (EC) No 1935/2004.

Annex II, Part III of the New TSD and its amendment (Commission Directive 2012/7/EU) for Category I

Migration limits for toys or components of toys (dry, brittle, powder-like or pliable toy materials)

Restricted materials	Limit (ppm)
Aluminium (Al)	5625
Antimony (Sb)	45
Arsenic (As)	3.8
Barium (Ba)	4500
Boron (B)	1200
Cadmium (Cd)	1.3
Chromium (III) (Cr III)	37.5
Chromium (VI) (Cr VI)	0.02
Cobalt (Co)	10.5
Copper (Cu)	622.5
Lead (Pb)	13.5
Manganese (Mn)	1200
Mercury (Hg)	7.5
Nickel (Ni)	75

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Org. Tin (org. Sn)	0.9
Selenium (Se)	37.5
Strontium (Sr)	4500
Tin (Sn)	15000
Zinc (Zn)	3750

With the entry into force of the new TSD the Norm EN 71-3 has also been revised taking into account the additional chemical elements.

The EN 71-3:2013 specifies the requirements and test methods for migration of the above mentioned chemical elements from the toys and toys components.

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