



SAFE TOYS FOR THE BENEFIT OF CHILDREN

Dir. 2009/48/EC - APPENDIX C

New Substances Included: Formamide, BIT, CMI/MI



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a UL company

Directive 2009/48/EC - Appendix C

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With the publication of Directives (EU) 2015/2115, 2015/2116, 2015/2117 new substances have been introduced in Appendix C of Directive 2009/48/EC on the safety of toys, establishing 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.

Substance	CAS Number	Limit Value
Formamide	75-12-7	20 µg/m ³ (emission limit) after a maximum of 28 days from commencement of the emission testing of foam toy materials containing more than 200 mg/kg (cut-off limit based on content).
1,2-benzisothiazol-3(2H)-one	2634-33-5	5 mg/kg (content limit) in aqueous toy materials, in accordance with the methods laid down in EN 71-10:2005 and EN 71-11:2005
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	1 mg/kg (content limit) in aqueous toy materials
5-Chloro-2-methyl-isothiazolin-3(2H)-one	26172-55-4	0,75 mg/kg (content limit) in aqueous toy materials
2-methylisothiazolin-3(2H)-one	2682-20-4	0,25 mg/kg (content limit) in aqueous toy materials

Directive 2015/2115 introduces a limit for **formamide** (CAS 75-12-7), substance used, among others, in the plastics and polymers industry, particularly as a solvent, plasticiser or as a substance associated with a blowing agent used in the production of foam. In 2010, several Member States identified formamide in a range of **foam toys, such as puzzle mats**, which gave rise to concerns for the health of children through inhalation.

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Directive 2015/2116 introduces a limit for **BIT** (CAS 2634-33-5) used as a **preservative in water-based toys** including hobby paints and finger paints.

Directive 2015/2117 introduces a limit for substances CMI and MI in a ratio of 3:1 (CAS 55965-84-9) as well as its individual components CMI (CAS 26172-55-4) and MI (CAS 2682-20-4) are used **as preservatives in water-based toys** including hobby paints, finger paints, window/glass paints, glues and soap bubbles.

The provisions for formamide and BIT apply **from May 24th 2017**, while provisions for CMI and MI in a ratio of 3:1, CMI (CAS 26172-55-4) and MI (CAS 2682-20-4) apply **from November 24th 2017**.

Our chemical laboratory can already support you in carrying out to check the conformity of your products to new limits of Appendix C.



Contact us for more information:
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