SAFEGUARDS SGS CONSUMER TESTING SERVICES

TOYS & JUVENILE PRODUCTS

NO. 111/13 JUNE 2013

CEN PUBLISHES NEW TOY SAFETY STANDARD EN 71-3:2013 FOR SOLUBLE ELEMENTS

The European Committee for Standardisation (CEN) recently published the new toy safety standard EN 71-3:2013 for soluble elements. The standard is expected to be harmonised under the Toy Safety Directive 2009/48/EC (TSD) upon official acceptance by the European Commission (EC) and by publication in the Official Journal of the European Union (OJEU) before the enforcement date for chemicals on 20 July 2013.

On 5 June 2013, the new toy safety standard EN 71-3:2013 'Safety of toys Part 3: Migration of certain elements' was published by the Comité Européen de Normalisation (CEN, European Committee for Standardisation). The method details the extraction of soluble elements from toy materials using conditions which simulate the material remaining in contact with gastric juices for a certain time after swallowing. The soluble elements are essentially determined by 3 different methods. The more stringent limits for soluble barium have, in principle, been agreed and are reflected in the standard (Table 1). These new limits are currently undergoing an administrative process for their official revision to the TSD.

The new standard EN 71-3:2013 is now available on a commercial basis at the national standards organisations, such as <u>British Standards Institution (BSI)</u>. It is widely expected that the new standard will be officially accepted by the EC and harmonised under the TSD by publication in the OJEU before the enforcement date of 20 July 2013.

Chemical standard requirements for juvenile products also have an important role in the demonstration of conformity for soluble elements. With the availability of the new EN 71-3:2013 standard, the application of the latest version of EN 71-3 for soluble elements for juvenile products is already applicable for some standards only and is expected in the future for all juvenile products . A SafeGuardS will be published soon on this subject.

Highlights of the new standard are summarised in Table 1.





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TABLE 1.

NO.	ITEM	HIGHLIGHT					
1	Title	• EN 71-3:2013 'Safety of Toys Part 3: Migration of certain elements'.					
2	Scope	Requirements and test methods for the migration of 19 heavy metals from toy materials and from parts of toys.					
3	Exemption	 Packaging materials unless having intended play value, Toys or toy parts, which, due to their accessibility, function, volume or mass, clearly exclude any hazard due to sucking, licking or swallowing or prolonged skin contact when used as intended or in a foreseeable way. 					
4	Test portion selection	 Test portions: Shall be taken from toy materials from 1 toy in form in which toy will be marketed, are taken from each colour of each toy material, may be composed of more than 1 colour or toy material only when discrete specimens cannot be separated physically, eg dot printing, patterned textiles etc. 					
5	Material exemption	≤ 10.0 mg of toy material					
6	Toy material	CATEGORY DEFINITION EXAMPLE OF TOY MATERIAL I Dry, brittle, powder like or pliable materials • Compressed paint tablets, • Materials intended to leave a trace or similar materials in solid form (e.g. cores of colouring pencils, chalk and crayons), • Bouncy putty, magic sand, plastacine, plaster of Paris and magic sand. II Liquid or sticky materials • Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form (eg slimes and bubble solution) III Scraped-off material • Coatings of paints, varnishes, printing inks and similar coatings, • Polymeric (plastic) and similar materials, including laminates, • Paper and paper board, • Natural or synthetic textiles, • Glass, ceramic or metallic materials, • Other materials such as bone, fibre board, foam, hard board, leather, natural sponge and wood.					

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NO.	ITEM	HIGHLIGHT					
7	Migration limits	Element	Migration limit (mg/kg)				
			Category I	Category II	Category III		
		Aluminium	5,625	1,406	70,000		
		Antimony	45	11.3	560		
		Arsenic	3.8	0.9	47		
		Barium	4,500	1125	56,000		
		[new limit] Boron	[1,500]	[375] 300	[18,750] 15,000		
		Cadmium	1.3	0.3	17		
		Chromium (III)	37.5	9.4	460		
		Chromium (VI)	0.02	0.005	0.2		
		Cobalt	10.5	2.6	130		
		Copper	622.5	156	7,700		
		Lead	13.5	3.4	160		
		Manganese	1,200	300	15,000		
		Mercury	7.5	1.9	94		
		Nickel	75	18.8	930		
		Selenium	37.5	9.4	460		
		Strontium	4,500	1,125	56,000		
		Tin	15,000	3,750	180,000		
		Organic tin	0.9	0.2	12		
		Zinc	3,750	938	46,000		
8	Analytical	HEAVY METALS ICP-OES or ICP-MS CHROMIUM (III) AND CHROMIUM (VI) LC-ICP-MS or other analytical method such as IC-UV-Vis or IC-ICP-MS ORGANOTIN (AFTER IN-SITU DERIVATISATION) GCMS					
9	Remark	 Latest strengthened limits for soluble barium incorporated (currently undergoing administrative process to amend TSD) EN 71-3:2013 expected to be harmonised under TSD by publication in the OJEU before enforcement date of 20 July 2013 					



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SGS offers a wide range of services to ensure that your products comply with the EU Toy Safety Directive. We offer training, safety/risk assessment, technical documentation check, labelling review, testing according to harmonised standards, SVHC screening, inspections and audits. With the largest global network of toy experts and testing facilities around the world - around 20 toy labs worldwide including 5 EU Notified Bodies (France, UK, Germany, Netherlands and Turkey), SGS is the partner to trust. Please do not hesitate to contact us for further information or visit our website.



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