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Ex	ecutive Summary:				
<u>TE</u>	<u>ST REQUEST</u>			<b>CONCLUSION</b>	
Eu	opean Standard on Safety of Toys:				
-	EN 71-1:2011+A3:2014 Mechanical and	d Physical Properties		PASS	
-	EN 71-2:2011+A1:2014 Flammability of	of Toys		PASS	
-	EN 71-3:2013 Migration of certain elem	ients		PASS	
C)	Labeling requirement (CE mark, Manufa identification)—Directive 2009/48/EC	acture/Importer mark and p Safety of toys	product	REFER TO NEXT PAGES	

\*\*\*\*\*\*\*\*\*\*\* For Further Details, Please Refer To the Following Page(s) \*\*\*\*\*\*\*\*\*\*\*\*





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### EUROPEAN STANDARD ON SAFETY OF TOYS

### ▼ Mechanical and physical properties

As specified in European Standard on Safety of Toys EN 71 part 1:2011+A3:2014.

<u>Clause</u>	Description	Assessment
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	Warnings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	N/A

#### N/A = Not Applicable

### ▼ <u>Flammability of Toys</u>

As specified in European Standard on Safety of Toys EN 71 part 2:2011+A1:2014.

Clause	<b>Description</b>				Assessme	<u>nt</u>
4	Requirements					
4.1	General				Pass	
	(The following materials shall not be used in the manufacture of toys except as provided in EN 71-2:2011+A1:2014 :					
	Celluloid, materials with a piled surface v					
	flammable liquids, flammable gels.)	highly flammable	liquids, flammable	liquids and		

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Labeling requirement (CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table:

	Observation Result	Location
CE mark	Found	Packaging
Importer's Name & Address	Found	Packaging
Manufacturer's Name & Address	Found	Packaging
Product ID	Found	Packaging

# S

Note:

(1): Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principle set out in Article 30 of Regulation (EC) NO 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.

(2): The manufacturer's name registered trade name or registered trade mark and the address at which the manufacture can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.

③: Manufacturer must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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### ▼ Migration of certain elements

As specified in European standard on safety of toys EN 71-3:2013 – Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, IC-ICP-MS and GC-MS.

Category Ⅲ: scraped-off toy material

Tested Item	<u>Result</u> (mg/kg)				MDL	<u>Limit</u>
	(1)	(2)	(3)	(4)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	2664	ND	50	70000
Antimony (Sb)	ND	ND	ND	ND	5	560
Arsenic (As)	ND	ND	ND	ND	5	47
Barium (Ba)	ND	ND	ND	ND	50	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	1	17
Chromium (Cr) <sup>#1</sup>	ND	0.640	ND	ND	0.2	
Chromium (III) <sup>#2</sup>	ND	0.640	ND	ND		460
Chromium (VI)	ND	ND	ND	ND	0.001	0.2
Cobalt (Co)	ND	ND	ND	ND	5	130
Copper (Cu)	ND	ND	ND	ND	50	7700
Lead (Pb)	ND	ND	ND	ND	5	160
Manganese (Mn)	125	ND	ND	ND	50	15000
Mercury (Hg)	ND	ND	ND	ND	5	94
Nickel (Ni)	ND	ND	ND	ND	5	930
Selenium (Se)	ND	ND	ND	ND	5	460
Strontium (Sr)	ND	ND	ND	ND	50	56000
Tin (Sn) <sup>#3</sup>	ND	ND	ND	ND	2	180000
Organic tin (TBT) <sup>#4</sup>	ND	ND	ND	ND	0.05	12
Zinc (Zn)	ND	ND	63	ND	50	46000



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Tested Component(s):

- (1) Beige wood
- (2) Transparent lacquer(frame) (sample weight:95mg)
- (3) Blue coating(triangles)
- (4) Brown MDF(triangles)

#### Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Filter paper was used instead of membrane filter in lab testing.
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.
  - <sup>#1</sup> Chromium (Cr) content can be used for screen test for hexavalent chromium and trivalent chromium analysis and to show compliance with the requirement of EN 71-3:2013.
  - <sup>#2</sup> Chromium (Cr) = Hexavalent chromium (Cr (VI)) +Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium amd/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
    - <sup>#3</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the r equirement of EN 71-3:2013.

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<sup>#4</sup> The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:2013	
Methyl tin (MeT)	
Butyl tin (BuT)	
Dibutyl tin (DBT)	
Tributyl tin (TBT)	
Tetrabutyl tin (TeBT)	
n-Octyl tin (MOT)	
Di-n-octyl tin (DOT)	
Di-n-propyl tin (DProT)	
Diphenyl tin (DPhT)	
Triphenyl tin (TPhT)	

All results shown are copied from CTI test report ECL01G012537.

#### Note:

- Only applicable clauses were shown







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\*\*\* End of Report \*\*\*

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