

Report No. SCL01G057603

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Applicant

JINLISEN METAL BOX MANUFACTORY CO., LTD

Address

YINGPING ROAD, QINGXI TOWN, DONGGUAN, CHINA

Report on the submitted sample(s) said to be:

Sample Name

tin box

Item No.

SD5, SD7

Country of Origin

China

Exported to

U.S.A

Client Specified Age Grading

Not stated

Labeled Age Grading

Ages 4 and up

Age Group Applied in Testing

Over 3 years

Sample Received Date

Dec. 01, 2014

Sample Tested Date

Dec. 01, 2014 to Dec. 10, 2014

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Reviewed by

2014-12-10

Victor Wang

ab Manager

No. T166700789

Date

ional (Shenzhen) Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China



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Executive Summary:

TE	CONCLUSION	
Eur	opean Standard on Safety of Toys	
-	EN 71-1:2011+ A3:2014 Mechanical and Physical Properties	PASS
-	EN 71-2:2011+A1:2014 Flammability of Toys	PASS
-	EN 71-3:2013 Migration of certain elements	PASS

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





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▼ Mechanical and physical properties

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

Clause	<u>Description</u>		
4	General requirements		
4.1	Material cleanliness.		
4.7	Edges	Pass	
4.8	Points and metallic wires	Pass	
4.10	Parts moving against each other:		
	4.10.3 Hinges	N/A	
	(Not applicable to products with a hinged part that has a mass less		
	than 250g.)		
7	Warnings and instructions for use		
	CE marking requirement	Pass	
	Manufacturer and importer's name or registered name/trade mark and	See Remark 1	
	address		
	Remark 1: 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.		
	Product Identification: type, batch, serial or model number or other element	Pass	
7.1	General	N/A	
7.2	Toys not intended for children under 36 months	N/A	
	(Remark 2: No small part was found before and after test.)		

N/A = Not Applicable

Note:

Only applicable clause(s) was/ were shown.





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▼ Flammability of Toys

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

Clause	Description	Assessment
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 the same behaviour in fire as celluloid, materials with a	
	piled surface which produce surface flash, flammable gases, extremely	
	flammable liquids, highly flammable liquids, flammable liquids and flammable	
	gels.)	

Note:

Only applicable clause(s) was/ were shown.



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▼Migration of certain elements

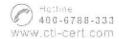
As specified in European standard on safety of toys EN 71-3:2013 - Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and GC-MS.

Category Ⅲ: scraped-off toy material

Tested Item	Result (mg/kg)				Limit
	(1)	(2)	(3)	(mg/kg)	(mg/kg)
Aluminium (Al)	110	ND	75	50	70000
Antimony (Sb)	ND	ND	ND	5	560
Arsenic (As)	ND	ND	ND	5	47
Barium (Ba)	ND	ND	ND	50	18750
Boron (B)	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	1	17
Chromium (Cr) ^{#1}	7.8	ND	2.6	0.2	
Chromium (III) #2	7.8		2.6		460
Chromium (VI)	ND	ND	ND	0.001	0.2
Cobalt (Co)	ND	ND	ND	5	130
Copper (Cu)	ND	ND	ND	50	7700
Lead (Pb)	ND	ND	ND	5	160
Manganese (Mn)	ND	ND	ND	50	15000
Mercury (Hg)	ND	ND	ND	5	94
Nickel (Ni)	ND	ND	ND	5	930
Selenium (Se)	ND	ND	ND	5	460
Strontium (Sr)	55	ND	87	50	56000
Tin (Sn) #3	144	ND	3016	2	180000
Organic tin (TBT) #4	ND	ND	ND	0.05	12
Zinc (Zn)	135	ND	ND	50	46000

Tested Component(s):

- (1) Multi-color coating(surface)
- (2)Black plastic(handle)
- (3) Transparent lacquer(lining)





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Remark:

- Mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- Mdl = method detection limit
- Filter paper was used instead of membrane filter in lab testing.
- #1 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.
- #2 Chromium (Cr) = Hexavalent chromium (Cr (VI)) +Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- #3 Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013.
- #4 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)





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Photo of the sample



*** End of Report ***

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