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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)

(3)

















Tested

by Carey

(C)

Reviewed by _



Approved by

Victor Wang

Date

2014-12-10

Lab Manager

ional (Shenzhen) Co., Ltd.

No. T166700789

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





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Executive Summary:

TEST REQUEST

European Standard on Safety of Toys

- EN 71-1:2011+ A3:2014 Mechanical and Physical Properties
- EN 71-2:2011+A1:2014 Flammability of Toys
- EN 71-3:2013 Migration of certain elements

CONCLUSION

PASS

PASS

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	Descript	<u>tion</u>		(5)			Assessn	nent
4	General	requirements						
4.1	Material	cleanliness					Pass	s
4.7					(.,4,3)		Pass	s
4.8	Points ar	nd metallic w	ires		(9)/		Pass	s
4.10	Parts mo	ving against	each other:					
	4.10.3	Hinges					N/A	1
9		(Not applied than 250g.)		ucts with a hi	nged part that l	has a mass less		(6)
7	Warnings	s and instruct	ions for use					
	CE man	rking require	ment				Pass	S
(Manufa	acturer and	importer's i	name or regis	stered name/tr	ade mark and	See Rem	ark 1
	Remark	1: The manu	facturer's na	me registered	trade name or i	registered trade		
	mark and	d the addres	s at which t	he manufactu	re can be con	tacted must be		
	documen	100	ing the toy.			kaging or in a so to the name		(4)
			•	h sarial or mo	del number or	other element	Pass	
7.1				1.5%			N/A	
7.1			2 200 70 3		7 25 70 1		N/A	
1.2	San		The same of the sa	and before and a	The state of the s		INTA	.

N/A = Not Applicable

Note:

Only applicable clause(s) was/ were shown.





















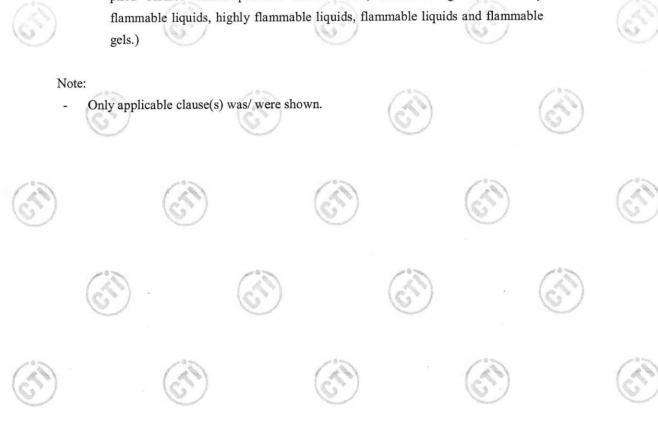
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▼ Flammability of Toys

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

<u></u>	lause	<u>Description</u>	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	<u>(</u>
)		flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	(c)

























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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

Category III. Scraped	1-on toy material			1 1	V.
Tested Item		Result (mg/kg)		MDL	<u>Limit</u>
- Sugar	(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	1-5	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	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)	(6
Dibutyl tin (DBT)	
Tributyl tin (TBT)	
Tetrabutyl tin (tebt)	207
N-Octyl tin (MOT)	(2)
Di-n-octyl tin (DOT)	
Di-n-propyl tin (dprot)	
Diphenyl tin (dpht)	
Triphenyl tin (tpht)	(6
	V. 19

















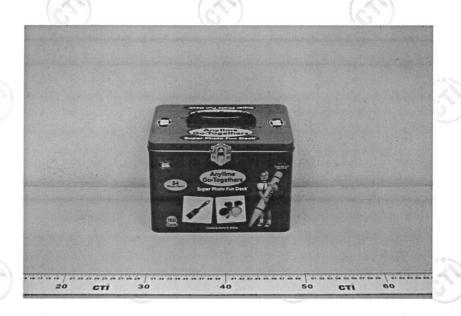




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Photo of the sample





*** End of Report ***

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