

TEST REPORT

APPLICANT	<u>CHI LOK BO TOYS COMPANY LIMITED</u>
NAME OF SAMPLE	<u>BATTERY OPERATED CAR</u>
MANUFACTURER	<u>CHI LOK BO TOYS COMPANY LIMITED</u>
TRADE MARK	<u>/</u>
TYPE OF TEST	<u>Commission Test</u>



Test Report

Customer: CHI LOK BO TOYS COMPANY LIMITED

Address: Daji Industrial Park Shipai Town Dongguan City Guangdong Province

Report on the submitted sample said to be

Sample name: BATTERY OPERATED CAR

Test model: 676A(6V)

Other reference model: 611. 611R. 613. 616. 616R. 619. 619R. 619A. 619AR. 621, 621R, 621A, 621AR, 623, 623R, 628, 631, 631R, 633, 633R, 633A, 633AR, 636, 638, 638R, 639, 639R, 653A, 653AR, 653, 653R, 662, 662R, 668, 668R, 669A, 669AR, 669AP, 669APR, 669, 669R, 669P, 669PR, 673, 673R, 676AR(6V), 676A(12V), 676AR(12V), 676, 676R, 678, 678R, 681, 681R, 681P, 681PR, 681B, 681BR, 681BP, 681BPR, 688, 688R, 698, 698R, BI118, BI118R, BI118A, BI118AR, BI118B, BI118BR, BI118CR

BATCH NO.:1436

Destination country: /

Material: /

Manufacturer: CHI LOK BO TOYS COMPANY LIMITED

Manufacturer address: /

Age Grading: 37~72 months

Sample received date: Jul. 07, 2015

Testing period: Jul. 07, 2015~ Jul. 20, 2015

Testing Requested

For compliance with the European Standard on Safety of Toys:

- EN 71-1:2014-Mechanical and Physical Properties
- EN71-2:2011+A1:2014 - Flammability of Toys
- EN71-3:2013+A1:2014 - Migration of Certain Elements

Conclusion

Test samples	Standard	Result
Tested samples	EN71-1:2014- Mechanical and Physical Properties	Pass
Tested samples	EN71-2:2011+A1:2014- Flammability of Toys	Pass
Tested samples	EN71-3:2013+A1:2014- Migration of Certain Elements	Pass

Tested by: *Liu Yaru* Checked By: *Calvin* Approved By: *Billow*
 Date: Jul. 20, 2015 Date: Jul. 20, 2015 Date: Jul. 20, 2015

Results:

1) EN71-1:2014: Mechanical and Physical Properties

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	General requirements.....	Pass
4.1	Material cleanliness.....	Pass
4.2	Assembly.....	Pass
4.3	Flexible plastic sheeting.....	Pass
4.7	Edges.....	Pass
4.8	Points and metallic wires.....	Pass
4.10.2	Driving mechanisms.....	Pass
4.15.1	Toys propelled by a child or by other means.....	Pass
4.20	Acoustic.....	Pass
6	Packaging.....	Pass
7	Warnings, markings and instructions for use.....	Pass
7.1	General.....	Pass
7.2	Toys not intended for children under 36 months.....	Pass

2) EN71-2:2011+A1:2014: Flammability of Toys

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	Pass
4.1	General requirements.....	Pass

Note:

- Only applicable clauses were shown.

3) EN71-3:2013+A1:2014: Migration of Certain Elements

Test Item	Result (mg/kg)						Reporting Limit (mg/kg)
	1	2	3	4	5	6	
Antimony(Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Arsenic(As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Barium(Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Chromium(Cr)#1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Selenium(Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Aluminum(Al)	N.D.	N.D.	N.D.	2.14×10 ³	N.D.	37	10
Boron(B)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Cobalt(Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Copper(Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	20
Manganese(Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Nickel(Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Strontium(Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Tin(Sn)#2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3
Zinc(Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	219	10

Test Item	Result (mg/kg)							Reporting Limit (mg/kg)
	7	8	9	10	11	12	13	
Antimony(Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Arsenic(As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Barium(Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Chromium(Cr)#1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Selenium(Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Aluminum(Al)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Boron(B)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Cobalt(Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Copper(Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	20
Manganese(Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Nickel(Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Strontium(Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Tin(Sn)#2	N.D.	N.D.	4	N.D.	N.D.	N.D.	N.D.	3
Zinc(Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10

Further testing of Organic tin, analysis was performed by GC-MS

ITEM	SAMPLE No.	Content of the sample (mg/kg)	MDL (mg/kg)
		9	
	Organic tin	N.D.	2

Specimen Description

Code	Specimen Name
1	Red car body
2	Black seat
3	Black wheel
4	Silvery electroplate
5	White base material
6	Color tags
7	Transparent baffle
8	Gray guard bar
9	Black safety rope
10	Transparent red lampshade
11	Transparent lampshade
12	Silvery plastic sheet
13	Black tube

Note:

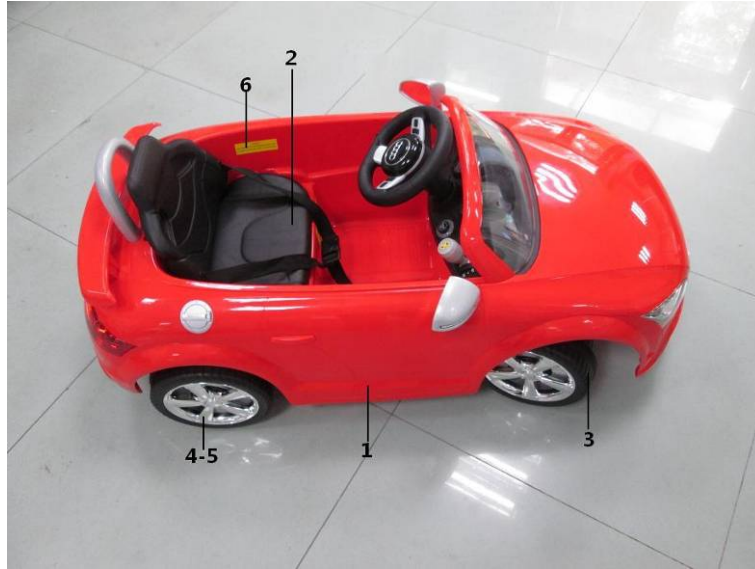
1. mg/kg=part per million=ppm N.D=Not Detected (less than Reporting limit)
2. #1=if this element was detected, further analysis of Chromium III & Chromium VI need to be performed.
3. #2= if this element was detected, further analysis of Organic tin need to be performed.
4. All the materials tested belong to Scraped-off toy material.



Requirement of migration of certain elements content according to EN71-3:2013+A1:2014, the limits are following:

Parameter	Dry, brittle, powder-like or pliable toy material (mg/kg)	Liquid or sticky toy material (mg/kg)	Scraped-off toy material (mg/kg)
Antimony(Sb)	45	11.3	560
Arsenic(As)	3.8	0.9	47
Barium(Ba)	1500	375	18750
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium (VI)	0.02	0.005	0.2
Lead(Pb)	13.5	3.4	160
Mercury(Hg)	7.5	1.9	94
Selenium(Se)	37.5	9.4	460
Aluminum(Al)	5625	1406	70000
Boron(B)	1200	300	15000
Cobalt(Co)	10.5	2.6	130
Copper(Cu)	622.5	156	7700
Manganese(Mn)	1200	300	15000
Nickel(Ni)	75	18.8	930
Strontium(Sr)	4500	1125	56000
Strontium(Sn)	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc(Zn)	3750	938	46000

Photographs Of tested samples



Other reference Photographs



623 623R:



628:



631 631R:



633 633R:



633A 633AR:



636:





638 638R:



639 639R:



653 653R 653A 653AR:

662 662R:



668 668R:



669 669A 669P 669R 669AR 669PR:



673 673R:

676 676R 676A(6V) 676AR(6V) 676A(12V)



676AR(12V):



678 678R:

681 681P 681B 681BP 681R 681PR 681BR 681BPR:



688 688R:



698 698R:

Main list of apparatus:

No.	Name	Model	Calibration Valid Date	USE(√)
1	Small parts cylinder	TNC 29	2015/10/14	√
2	Sharp points tester	TNC 28	2015/09/23	√
3	Sharp edge tester	TM-006	2015/08/18	√
4	Force gauge	FB-200N	2015/09/22	√
5	Torque meter	9BTG	2015/09/22	√
6	Intergrated burning tester	TNC 14	2015/09/22	√
7	Thickness Gauge	(0-12.7)mm	2015/08/15	√
8	Toys strength and stability test load	GW-058	2016/06/25	√
9	2m/s testing frame	GT-005	2016/05/16	√
10	Children tricycle brake performance test system	GT-004B	2016/03/26	√
11	Digital noise meter	TES 1350A	2016/02/12	√
12	GC-MS	5975i	2015/09/21	√
13	ICP-MS	7700	2016/04/12	√

***** END OF REPORT *****

STATEMENT

1. The test report is invalid without stamp of laboratory.
2. The test report is invalid without signature of person(s) testing and authorizing.
3. The test report is invalid if erased and corrected.
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