



Test Report

Date : 2019-04-28
No. : SP19030140

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Applicant : SHANGHAI LONGQIAN TOYS CO.,LTD
No. 1458, Qinwan Road, Jinshanwei Town, Jinshan District, Shanghai
Attn: Li Dong

Supplier : SHANGHAI LONGQIAN TOYS CO.,LTD

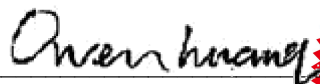
Description of Samples : One (1) group of submitted samples said to be:
CHILDREN'S CAR
STYLE NO.:AMG GT_R
COUNTRY OF ORIGIN: SHANGHAI
COUNTRY OF DESTINATION : EUROPE/USA
AGE GRADING FOR APPLICANT: 36-95MONTHS
AGE GRADING FOR TESTING : 36MONTHS AND UP

Date Samples Received : 2019-03-19, 2019-04-10, 2019-04-19

Date Tested : 2019-03-19 to 2019-04-23

Requirements	Conclusion
1. European Standard for Safety of Toys - EN71-1:2014+A1:2018, mechanical and physical properties - EN71-2:2011+A1:2014, flammability - EN71-3:2013+A3:2018, migration of certain elements	Pass
2. European Standard for Safety of Electric Toys - EN 62115:2005 + A12:2015(Apart from clause 16)	Pass
3.ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test - flammability test - heavy metal test	Pass
4. US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
5. The Total Lead content requirements according to the California Proposition 65	Pass
6. The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.	Pass

This Test Report supersedes our previous Test Report No. SP19030140 issued on 2019-04-24 which is hereby deemed null and void.


HUANG Qinglai, Owen
Authorized Signatory



STC (Shanghai) Company Limited

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The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

Item No.	Component Description
Coating materials:	
1	Coating: black*1*9
2	Coating on steering wheel: bright silver*1*9
3	Coating on wheel :silver
4	Coating on car hood: blue*2*10
5	Coating on trail: orange
6	Coating on switch: white*2*10
Plastic materials:	
7	Substrate on steering wheel: white
8	Substrate on wheel: gray
9	Body: white
10	Body: black
11	Hinge on wheel: black
12	Motor: white
13	Chassis: grey
14	Wheel: black
15	Sticker: black/multicolor
16	Switch: black
17	Switch: red
18	Switch on car door: red
19	Tail light: transparent red
20	spotlight: transparent grey
21	Cars against wind: transparent black
22	Saddle: black
23	Steering wheel: black
24	Steering wheel: grey
25	USB: beige
26	USB connector: black
27	USB film :transparent*1*12
28	Charge : black
29	Substrate of tail : transparent white
Others materials:	
30	Instruction: white with black
Metal materials:	
31	Substrate of car hood: silver*3*11
32	Substrate of metal : silver*3*11
33	Screw :black with coating*3*11
34	Screw: silver*3*11
35	Spacer: silver*3*11
36	Metal of charge : silver*3*11
37	Nut : silver*3*11
38	USB metal : silver*3*11

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Test Results:

1. European Standard for Safety of Toys

AGE GRADING:

The sample did not contain an age grade; however, it was considered appropriate for children of 36 months and up.

AGE GRADING FOR TESTING:

36 months and up.

1.1 EN71-1:2014+A1:2018 - Part 1: Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	----
4.1	Materials cleanliness	Pass
4.2	Assembly	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.15	Toys intended to bear the mass of a child	----
4.15.1	Toys propelled by a child or by other means	Pass
4.20	Acoustics	Pass
7	Marking and instructions for use (EC Directive)	Pass

1.2 EN71-2:2011+A1:2014- Part 2: Flammability

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

1.3 EN71-3:2013+A3:2018: Migration of certain elements

Determined by: Inductively Coupled Plasma Mass Spectrometry

1.3.1 Category III: Scraped-off toy material

*1 = There were insufficient materials to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weight of the specified materials used for analysis were shown below :

- 1 Coating: black(49.2mg)
- 2 Coating on steering wheel: bright silver(10.0mg)
- 27 USB film :transparent(12.2mg)

*2 = The surface coating is less than 10mg, so it is not necessary to conduct the test according to the standard.

*3 = Accessible glass, ceramic and metallic toy components which do not fit within the small parts cylinder are not tested according to requirement of EN71-3:2013+A3:2018.

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Test Results:

Elements	Result (mg/kg)										Limit(mg/kg)
	<u>1</u>	<u>2</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Aluminium	42	490	18300	5	70	47	7	9	8	<5	70000
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18750
Boron	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium(VI)	*4	<0.2	*4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	23
Manganese	27	<5	9	6	<5	6	7	8	6	<5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Nickel	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Zinc	62	<5	13	<5	<5	<5	<5	<5	<5	<5	46000

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Test Results:

Elements	Result (mg/kg)									Limit(mg/kg)
	13	14	15	16	17	18	19	20	21	
Aluminium	<5	11	21	15	8	<5	6	<5	<5	70000
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	10	<5	<5	<5	<5	<5	<5	18750
Boron	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	6	7	<5	5	7	6	6	5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Zinc	<5	<5	<5	5	<5	<5	<5	5	<5	46000

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Test Results:

Elements	Result (mg/kg)									Limit(mg/kg)
	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	
Aluminium	<5	<5	5	<5	6	15	5	20	278	70000
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	<5	<5	<5	<5	<5	18750
Boron	<5	<5	<5	<5	<5	<5	28	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	*4	<0.2	<0.2	0.2
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	5	7	<5	6	<5	7	<5	16	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	29	56000
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Zinc	<5	<5	<5	<5	<5	<5	136	<5	<5	46000

Remark: mg/kg = milligram per kilogram

The Chromium content was reported as Chromium (III) and Chromium (VI). Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed.

The Tin content was reported as Organic tin unless specified.

*4 = The results of Chromium exceeded the limit of Chromium (VI) ; hence confirmation test was performed. (See soluble Chromium (VI) section)

1.3.2 Chromium (VI) contents

Method used: EN71-3: 2013+A3:2018

Determined by: LC-ICP-MS

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Test Results:

Category III: Scraped-off toy materials.

Element	Result(s) (mg/kg)			Limit (mg/kg)
	<u>1</u>	<u>3</u>	<u>28</u>	
Chromium (VI)	<0.2	<0.2	<0.2	0.2

2. EN62115:2005+A12:2015 - European Standard for Safety of Electric Toys

AGE GRADING:

The sample did not contain an age grade; however, it was considered appropriate for children of 36 months and up.

AGE GRADING FOR TESTING:

36 months and up.

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>	
4	General requirement	Pass	
7	Marking and instructions	Pass	
9	Heating and abnormal operation	Pass	
9.3	Normal operation Ambient temperature: 19.31°C Supply voltage: 12V DC		
	<u>Location of thermocouple</u>	<u>Temp. rise Measured (K)</u>	<u>Specified Limits (K)</u>
	Motor	26.67	45
	Motor	0.74	45
	Battery	0	45
	Button	0.74	35
	Button	0.74	35
	Shell	0.33	35
	Metal	-0.26	25
9.6	Locked moving part Ambient temperature: 20.55°C Supply voltage: 12V DC		
	<u>Location of thermocouple</u>	<u>Temp. rise Measured (K)</u>	<u>Specified Limits (K)</u>
	Motor	24.86	45
	Motor	19.58	45
	Battery	1.73	45
	Button	0.41	35
	Button	0.57	35

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	Shell	-0.42	35
	Metal	0.24	25

Test Results:

11	Moisture resistance	Pass
13	Mechanical strength	Pass
14	Construction	Pass
15	Protection of cords and wires	Pass
16	Components	*5
20	Radiation, toxicity and similar hazards	Pass*6

*5 = The applicant did not provide any certificate of compliance to assess clause 16.1 that applicant need to ensure components comply with the safety requirements specified in the relevant harmonized standards.

*6 = Please refer to section 1.3 of this report for details.

3. ASTM Standard Consumer Safety Specification for Toy Safety F 963-17

AGE GRADING:

The sample did not contain an age grade; however, it was considered appropriate for children of 36 months and up.

AGE GRADING FOR TESTING:

36 months and up.

3.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-17

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass*7
4.5	Sound-Producing Toys	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.15	Stability and Over-Load Requirements	Pass
4.18	Holes, clearance and Accessibility of Mechanisms	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading labeling	*8
6	<u>Instructional Literature</u>	----
6.1	Definition and Description	Pass
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	Pass

*7 = Please refer to section 1.2 of this report for details.

*8 = See age grading.

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Use and abuse testing:

Test Results:

<u>Applicable Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	Tip over
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

3.2 Flammability test for solids and soft toys

Ref.: ASTM F963-17 Section 4.2
Method used: FHSA 16CFR 1500.44
Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
CHILDREN'S CAR	DNI

DNI = Did not ignite

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

3.3 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5
Method: ASTM F963-17 Section 8.3
Determined by: X-Ray Fluorescence Spectrometry & Inductively Coupled Plasma-Optical Emission Spectrometer & Inductively Coupled Plasma Mass Spectrometry

4.3.5.1 Paint and similar surface-coating

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	90ppm
<u>4</u>	<10ppm	90ppm
<u>5</u>	<10ppm	90ppm
<u>6</u>	<10ppm	90ppm

Soluble metals test:

*⁹ = There were insufficient materials to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weight of the specified materials used for analysis were shown below :

- 1 Coating: black(49.2mg)
- 2 Coating on steering wheel: bright silver(10.0 mg)

*¹⁰ = The surface coating is less than 10mg, so it is not necessary to conduct the test according to the standard.

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Test Results:

	<u>1</u>	<u>2</u>	<u>3</u>	<u>5</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

4.3.5.2 Toys Substrate Materials

Total lead test

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
7+8+9	<10ppm	100ppm
10+11+12	<10ppm	100ppm
13+14	22ppm	100ppm
15	<10ppm	100ppm
16+17	<10ppm	100ppm
18+19+20	<10ppm	100ppm
21+22+23	<10ppm	100ppm
24+25	<10ppm	100ppm
26	<10ppm	100ppm
27	<10ppm	100ppm
28	<10ppm	100ppm
29	<10ppm	100ppm
30	<10ppm	100ppm
31	<10ppm	100ppm
32	<10ppm	100ppm
33	<10ppm	100ppm
34	<10ppm	100ppm
35	<10ppm	100ppm
36	53ppm	100ppm
37	<10ppm	100ppm
38	<10ppm	100ppm

Soluble metals test:

*11 = According to requirement of ASTM F963-17, materials such as metal, glass, and ceramic are exempted if they are not small parts.

*12 = There were insufficient materials to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weight of the specified materials used for analysis were shown below :

27 USB film :transparent(12.2mg)

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Test Results:

	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	10ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

Note: < denotes less than.

4. US Consumer Product Safety Improvement Act

4.1 Children's products containing lead - Total Lead content in paint and surface coating

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Test method: CPSC-CH-E1003-09.1

Determined by: X-Ray Fluorescence Spectrometry & Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	90ppm
<u>4</u>	<10ppm	90ppm
<u>5</u>	<10ppm	90ppm
<u>6</u>	<10ppm	90ppm

Note: < denotes less than.

4.2 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Test method: CPSC-CH-E1002-08.3

Determined by: X-Ray Fluorescence Spectrometry & Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>7+8+9</u>	<10ppm	100ppm
<u>10+11+12</u>	<10ppm	100ppm
<u>13+14</u>	22ppm	100ppm
<u>15</u>	<10ppm	100ppm
<u>16+17</u>	<10ppm	100ppm
<u>18+19+20</u>	<10ppm	100ppm
<u>21+22+23</u>	<10ppm	100ppm
<u>24+25</u>	<10ppm	100ppm
<u>26</u>	<10ppm	100ppm
<u>27</u>	<10ppm	100ppm
<u>28</u>	<10ppm	100ppm
<u>29</u>	<10ppm	100ppm

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<u>30</u>	<u><10ppm</u>	<u>100ppm</u>
<u>31</u>	<u><10ppm</u>	<u>100ppm</u>

Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>32</u>	<u><10ppm</u>	<u>100ppm</u>
<u>33</u>	<u><10ppm</u>	<u>100ppm</u>
<u>34</u>	<u><10ppm</u>	<u>100ppm</u>
<u>35</u>	<u><10ppm</u>	<u>100ppm</u>
<u>36</u>	<u>53ppm</u>	<u>100ppm</u>
<u>37</u>	<u><10ppm</u>	<u>100ppm</u>
<u>38</u>	<u><10ppm</u>	<u>100ppm</u>

Note: < denotes less than.

4.3 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1+2+3	4	5	
Di-n-butyl phthalate (DBP)	84-74-2	100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	472	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	302	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		6	7+8+9	10+11+12	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		13+14	15	16+17+18	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	273	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

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Test Results:

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		19+20 +21	22+23	24+25	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		26	27	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		28+29	30	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	183	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Note: < denotes less than.

5. The Total Lead Content

Ref.: California Proposition 65

Determined by: X-Ray Fluorescence Spectrometry & Inductively Coupled Plasma-Optical Emission Spectrometer

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Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	90ppm
<u>4</u>	<10ppm	90ppm
<u>5</u>	<10ppm	90ppm
<u>6</u>	<10ppm	90ppm
<u>7+8+9</u>	<10ppm	100ppm
<u>10+11+12</u>	<10ppm	100ppm
<u>13+14</u>	22ppm	100ppm
<u>15</u>	<10ppm	100ppm
<u>16+17</u>	<10ppm	100ppm
<u>18+19+20</u>	<10ppm	100ppm
<u>21+22+23</u>	<10ppm	100ppm
<u>24+25</u>	<10ppm	100ppm
<u>26</u>	<10ppm	100ppm
<u>27</u>	<10ppm	100ppm
<u>28</u>	<10ppm	100ppm
<u>29</u>	<10ppm	100ppm
<u>30</u>	<10ppm	100ppm
<u>31</u>	<10ppm	100ppm
<u>32</u>	<10ppm	100ppm
<u>33</u>	<10ppm	100ppm
<u>34</u>	<10ppm	100ppm
<u>35</u>	<10ppm	100ppm
<u>36</u>	53ppm	100ppm
<u>37</u>	<10ppm	100ppm
<u>38</u>	<10ppm	100ppm

Note: < denotes less than.

6. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

- Di-n-butyl phthalate (DBP)	<u>1+2+3</u> 100ppm	<u>4</u> <100ppm	<u>5</u> <100ppm	<u>6</u> <100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	472ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-butyl phthalate (DBP)	<u>7+8+9</u> <100ppm	<u>10+11+12</u> <100ppm	<u>13+14</u> <100ppm	<u>15</u> <100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	273ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm

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- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Test Results:

	<u>16+17+</u> <u>18</u>	<u>19+20+</u> <u>21</u>	<u>22+23</u>	<u>24+25</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>26</u>	<u>27</u>	<u>28+29</u>	<u>30</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	183ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

The photo of submitted samples



***** End of Test Report *****

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