



STC Test Report



Date : 2013-12-02
No. : HP264332

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Applicant (YOC004) : Yoshiritsu Co Ltd
1563 Koshibe Oyodo Yoshino Nara
638-0803 Japan

Attn: Mo Saeki

Description of Samples : Five styles of submitted sample each in three sets said to be:
NO.2. LAQ ANIMAL WORLD WILD KINGDOM, NO.5. LAQ SWEET COLLECTION DREAMS, NO.7 LAQ HAMACRON CONSTRUCTION JET FIGHTER, NO.8. LAQ HAMACRON CONSTRUCTOR RACE CAR, NO.10. LAQ HAMACRON CONSTRUCTOR EXPRESS. (see attached photo)
COUNTRY OF ORIGIN: JAPAN
AGE GRADING: 5 YEARS OLD AND UP (NO.2/NO.5)
7 YEARS OLD AND UP (NO.7/NO.8/NO.10)

Date Samples Received : 2013-11-18

Date Tested : 2013-11-18 to 2013-11-26

Investigation Requested : (1) ASTM Standard Consumer Safety Specification on Toy Safety, F963-11:
- physical and mechanical tests
- flammability test
- heavy metals content
(2) USA Consumer Product Safety Improvement Act
- Sec. 101(a): Children's products containing lead - Total lead content for substrate
- Sec. 101 (f) and 16 CFR 1303: Children's products containing lead - Total lead content in paint and surface coating
- Sec. 108: Phthalates content
(3) European Standard for Safety of Toys
- EN71-1:2011
- EN71-2:2011
- EN71-3:2013

WONG Wing-cheung, Benny
CNAS Approved Signatory



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Conclusions

: ASTM F963-11: physical and mechanical, electrical tests
The submitted sample complied with the test requirement.

ASTM F963-11: flammability test
The submitted sample complied with the test requirement.

ASTM F963-11: heavy metals content
The submitted sample complied with the test requirement.

USA Consumer Product Safety Improvement Act, Sec. 101(a): Total lead content for substrate in children's products
The submitted sample complied with the test requirement.

USA Consumer Product Safety Improvement Act, Sec. 101 (f) and 16 CFR 1303: Total lead content in paint and surface coating
The submitted sample complied with the test requirement.

USA Consumer Product Safety Improvement Act, Sec. 108: Phthalates content
The submitted sample complied with the test requirement.

EN71-1:2011
The submitted sample complied with the test requirement.

EN71-2:2011
The submitted sample complied with the test requirement.

EN71-3:2013
The submitted sample complied with the test requirement.

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AGE GRADING:

NO.2. LAQ ANIMAL WORLD WILD KINGDOM, NO.5. LAQ SWEET COLLECTION DREAMS:

The sample was appropriately age graded with the marking of "Ages 5+".

NO.7 LAQ HAMACRON CONSTRUCTION JET FIGHTER, NO.8. LAQ HAMACRON CONSTRUCTOR RACE CAR, NO.10. LAQ HAMACRON CONSTRUCTOR EXPRESS.:

The sample was appropriately age graded with the marking of "Ages 7+".

AGE GRADING FOR TESTING:

NO.2. and NO.5.: 5 years and up.

NO.7, NO.8. and NO.10.: 7 years and up.

Test Results :

1. ASTM F963

1.1 Mechanical and physical hazards

Ref.: ASTM F963-11

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 (by visual assessment)	Pass
4.2	Flammability	Pass* ¹
4.3	Toxicology	Pass* ¹
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.9	Accessible points	Pass
4.12	Plastic film	Pass
5	<u>Labeling requirements</u>	
5.1	Federal government requirements	Pass
5.2	Age grading labeling	Pass
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles and balloons	Pass
5.16	Promotional materials	Pass
6	<u>Instructional literature</u>	
6.1	Definition and description	Pass
7	<u>Producer's markings</u>	
7.1	Name and address of the producer or distributor	Pass

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Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Impact tests	4 drops at 3 ft.
8.8	Torque tests	4 in-lbs.
8.9	Tension tests	15 lbs.
8.10	Compression tests	30 lbs.

*¹ = Refer to the relevant test results at the following pages.

1.2 Flammability test of material other than textiles

Ref.: ASTM F963-11 Section 4.2

Method used: ASTM F963-11 Annex A5

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Wheel	0.02
Box (green)	0.03
Box (pink)	0.03
Box (orange)	0.03

Note: The burning rate should not be greater than 0.1 inch per second.

1.3 Heavy element

Ref.: ASTM F963-11 Section 4.3.5

Method: ASTM F963-11 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Paint and Similar Surface-Coating Materials

Ref.: ASTM F963-11 Section 4.3.5.1

Coating material

- (a) Instruction guide book (#2/#5/#7/#8/#10): red/orange/yellow/blue/green multicolor coating

Sample	Total Lead content, ppm
(a)	<10
Limit	90

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Sample	Soluble heavy metal content, ppm							
	Lead	Cadmium	Chromium	Barium	Antimony	Arsenic	Mercury	Selenium
(a)	<2	<2	<2	6	<2	<2	<2	<2
Limit	90	75	60	1000	60	25	60	500

Toys Substrate Materials (see Note)

Ref.: ASTM F963-11 Section 4.3.5.2

Polymeric material

- (a) Block (#2/#7/#8/#10) : black ABS
- (b) Block (#2/#5/#7/#8/#10) : white ABS
- (c) Block (#2/#5/#7/#8/#10) : red ABS
- (d) Block (#2/#7/#10) : blue ABS
- (e) Block (#2/#5/#10) : yellow ABS
- (f) Block (#2/#10) : green ABS
- (g) Block (#2/#5) : pink ABS
- (h) Block (#2/#5/#7/#8/#10) : sky blue ABS
- (i) Block (#5) : lime ABS
- (j) Block (#2/#5) : orange ABS
- (k) Block (#2/#5) : brown ABS
- (l) Block (#2/#5/#10) : gray ABS
- (m) Block (#2/#5/#7/#8/#10) : black POM
- (n) Block (#2/#5/#7/#8/#10) : white POM
- (o) Block (#2/#5/#7/#8/#10) : red POM
- (p) Block (#2/#5/#7/#10) : blue POM
- (q) Block (#2/#5/#7/#8/#10) : yellow POM
- (r) Block (#2/#10) : green POM
- (s) Block (#2/#5) : pink POM
- (t) Block (#2/#5/#7/#8/#10) : sky blue POM
- (u) Block (#5) : lime POM
- (v) Block (#2/#5/#10) : orange POM
- (w) Block (#2/#5) : brown POM
- (x) Block (#2/#5/#10) : gray POM
- (y) Wheel (#7/#8/#10) : black
- (z) Wheel (#7/#8/#10) : white
- (aa) Axle of wheel : (#7/#8/#10) : dark black
- (ab) Wheel (#7/#8/#10) : light blue
- (ac) Headband (#5) : white PP
- (ad) Box (#2) : lime
- (ae) Box (#5) : pink
- (af) Box (#10) : orange

Paper and board

- (ag) Instruction guide book (#2/#5/#7/#8/#10): white paper

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Sample	Total Lead content, ppm
(a)	<10
(b)	<10
(c)	<10
(d)	<10
(e)	<10
(f)	<10
(g)	<10
(h)	<10
(i)	<10
(j)	<10
(k)	<10
(l)	<10
(m)	<10
(n)	<10
(o)	<10
(p)	<10
(q)	<10
(r)	<10
(s)	<10
(t)	<10
(u)	<10
(v)	<10
(w)	<10
(x)	<10
(y)	<10
(z)	<10
(aa)	<10
(ab)	<10
(ac)	<10
(ad)	<10
(ae)	<10
(af)	<10
(ag)	<10
Limit	100

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Polymeric material

- (a) Block (#2/#7/#8/#10) : black ABS
- (b) Block (#2/#5/#7/#8/#10) : white ABS
- (c) Block (#2/#5/#7/#8/#10) : red ABS
- (d) Block (#2/#7/#10) : blue ABS
- (e) Block (#2/#5/#10) : yellow ABS
- (f) Block (#2/#10) : green ABS
- (g) Block (#2/#5) : pink ABS
- (h) Block (#2/#5/#7/#8/#10) : sky blue ABS
- (i) Block (#5) : lime ABS
- (j) Block (#2/#5) : orange ABS
- (k) Block (#2/#5) : brown ABS
- (l) Block (#2/#5/#10) : gray ABS
- (m) Block (#2/#5/#7/#8/#10) : black POM
- (n) Block (#2/#5/#7/#8/#10) : white POM
- (o) Block (#2/#5/#7/#8/#10) : red POM
- (p) Block (#2/#5/#7/#10) : blue POM
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- (y) Wheel (#7/#8/#10) : black
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- (aa) Axle of wheel : (#7/#8/#10) : dark black
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Sample	Soluble heavy metal content, ppm							
	Lead	Cadmium	Chromium	Barium	Antimony	Arsenic	Mercury	Selenium
(a)	<2	<2	<2	<2	<2	<2	<2	<2
(b)	<2	<2	<2	<2	<2	<2	<2	<2
(c)	<2	<2	<2	<2	<2	<2	<2	<2
(d)	<2	<2	<2	<2	<2	<2	<2	<2
(e)	<2	<2	<2	<2	<2	<2	<2	<2
(f)	<2	<2	<2	<2	<2	<2	<2	<2
(g)	<2	<2	<2	<2	<2	<2	<2	<2
(h)	<2	<2	<2	<2	<2	<2	<2	<2
(i)	<2	<2	<2	<2	<2	<2	<2	<2
(j)	<2	<2	<2	<2	<2	<2	<2	<2
(k)	<2	<2	<2	<2	<2	<2	<2	<2
(l)	<2	<2	<2	<2	<2	<2	<2	<2
(m)	<2	<2	<2	<2	<2	<2	<2	<2
(n)	<2	<2	<2	<2	<2	<2	<2	<2
(o)	<2	<2	<2	<2	<2	<2	<2	<2
(p)	<2	<2	<2	<2	<2	<2	<2	<2
(q)	<2	<2	<2	<2	<2	<2	<2	<2
(r)	<2	<2	<2	<2	<2	<2	<2	<2
(s)	<2	<2	<2	<2	<2	<2	<2	<2
(t)	<2	<2	<2	<2	<2	<2	<2	<2
(u)	<2	<2	<2	<2	<2	<2	<2	<2
(v)	<2	<2	<2	<2	<2	<2	<2	<2
(w)	<2	<2	<2	<2	<2	<2	<2	<2
(x)	<2	<2	<2	<2	<2	<2	<2	<2
(y)	<2	<2	<2	<2	<2	<2	<2	<2
(z)	<2	<2	<2	<2	<2	<2	<2	<2
(aa)	<2	<2	<2	<2	<2	<2	<2	<2
(ab)	<2	<2	<2	<2	<2	<2	<2	<2
(ac)	<2	<2	<2	<2	<2	<2	<2	<2
(ad)	<2	<2	<2	<2	<2	<2	<2	<2
(ae)	<2	<2	<2	<2	<2	<2	<2	<2
(af)	<2	<2	<2	<2	<2	<2	<2	<2
Limit	90	75	60	1000	60	25	60	500

ppm = mg/kg (milligram per kilogram)

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2. USA Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total lead content in substrate

Ref.: CPSIA Sec 101(a).

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Polymeric material/Paper and Board

Test method: Standard operation procedure for determining total lead (Pb) in non-metal children's products, CPSC-CH-E1002-08.1

- (a) Block (#2/#7/#8/#10) : black ABS
- (b) Block (#2/#5/#7/#8/#10) : white ABS
- (c) Block (#2/#5/#7/#8/#10) : red ABS
- (d) Block (#2/#7/#10) : blue ABS
- (e) Block (#2/#5/#10) : yellow ABS
- (f) Block (#2/#10) : green ABS
- (g) Block (#2/#5) : pink ABS
- (h) Block (#2/#5/#7/#8/#10) : sky blue ABS
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- (ac) Headband (#5) : white PP
- (ad) Box (#2) : lime
- (ae) Box (#5) : pink
- (af) Box (#10) : orange
- (ag) Instruction guide book (#2/#5/#7/#8/#10): white paper

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Sample No.	Total lead content, ppm
(a)	<10
(b)	<10
(c)	<10
(d)	<10
(e)	<10
(f)	<10
(g)	<10
(h)	<10
(i)	<10
(j)	<10
(k)	<10
(l)	<10
(m)	<10
(n)	<10
(o)	<10
(p)	<10
(q)	<10
(r)	<10
(s)	<10
(t)	<10
(u)	<10
(v)	<10
(w)	<10
(x)	<10
(y)	<10
(z)	<10
(aa)	<10
(ab)	<10
(ac)	<10
(ad)	<10
(ae)	<10
(af)	<10
(ag)	<10
Limit	100

- 2.2 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-E 1003-09.1
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Coating material

- (a) Instruction guide book (#2/#5/#7/#8/#10): red/orange/yellow/blue/green multicolor coating

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Sample No.	Total lead content, ppm
(a)	<10
Limit	90

Remark

- ppm = part per million which is equivalent to milligram per kilogram (mg/kg)
- < = less than

2.3

Phthalates content

Ref.: CPSIA Sec. 108

Test method: CPSC-CH-C1001-09.3 by Gas Chromatography with Mass Selective Detector

- (a) Block (#2/#7/#8/#10) : black ABS
- (b) Block (#2/#5/#7/#8/#10) : white ABS
- (c) Block (#2/#5/#7/#8/#10) : red ABS
- (d) Block (#2/#7/#10) : blue ABS
- (e) Block (#2/#5/#10) : yellow ABS
- (f) Block (#2/#10) : green ABS
- (g) Block (#2/#5) : pink ABS
- (h) Block (#2/#5/#7/#8/#10) : sky blue ABS
- (i) Block (#5) : lime ABS
- (j) Block (#2/#5) : orange ABS
- (k) Block (#2/#5) : brown ABS
- (l) Block (#2/#5/#10) : gray ABS
- (m) Block (#2/#5/#7/#8/#10) : black POM
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Sample No.	Phthalates content, %(w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
(a)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(b)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(c)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(d)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(e)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(f)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(g)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(h)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(i)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(j)	<0.01	<0.01	<0.01	0.02	<0.01	0.01
(k)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(m)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(n)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(o)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(p)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(q)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(r)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(s)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(t)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(u)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(v)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(x)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(y)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(z)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(aa)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(ab)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(ac)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(ad)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(ae)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(af)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1

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Remark:

- DBP = Di-n-butyl phthalate
- BBP = Benzyl-n-butyl phthalate
- DEHP = Di (2-ethylhexyl) phthalate
- DNOP = Di-n-octyl phthalate
- DINP = Diisononyl phthalate
- DIDP = Diisodecyl phthalate
- %(w/w) =percentage weight per weight
- The requirements of DNOP, DINP and DIDP are only applicable to components that can be placed in children's mouths.

3.1 EN71-1:2011 - Part 1: Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Materials cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	<u>Markings and instructions for use</u>	* ²
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

*² = The manufacturer or his authorized representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging.

2.2 EN71-2:2011 - Part 2: Flammability

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

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2.3 EN71-3 :2013 – Part 3: Migration of certain elements

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer
and Inductively Coupled Plasma Mass Spectrometry

Category III: Scraped-off toy material (see Note)

Polymeric material

- (a) Block (#2/#7/#8/#10) : black ABS
- (b) Block (#2/#5/#7/#8/#10) : white ABS
- (c) Block (#2/#5/#7/#8/#10) : red ABS
- (d) Block (#2/#7/#10) : blue ABS
- (e) Block (#2/#5/#10) : yellow ABS
- (f) Block (#2/#10) : green ABS
- (g) Block (#2/#5) : pink ABS
- (h) Block (#2/#5/#7/#8/#10) : sky blue ABS
- (i) Block (#5) : lime ABS
- (j) Block (#2/#5) : orange ABS
- (k) Block (#2/#5) : brown ABS
- (l) Block (#2/#5/#10) : gray ABS
- (m) Block (#2/#5/#7/#8/#10) : black POM
- (n) Block (#2/#5/#7/#8/#10) : white POM
- (o) Block (#2/#5/#7/#8/#10) : red POM
- (p) Block (#2/#5/#7/#10) : blue POM
- (q) Block (#2/#5/#7/#8/#10) : yellow POM
- (r) Block (#2/#10) : green POM
- (s) Block (#2/#5) : pink POM
- (t) Block (#2/#5/#7/#8/#10) : sky blue POM
- (u) Block (#5) : lime POM
- (v) Block (#2/#5/#10) : orange POM
- (w) Block (#2/#5) : brown POM
- (x) Block (#2/#5/#10) : gray POM
- (y) Wheel (#7/#8/#10) : black
- (z) Wheel (#7/#8/#10) : white
- (aa) Axle of wheel : (#7/#8/#10) : dark black
- (ab) Wheel (#7/#8/#10) : light blue
- (ac) Headband (#5) : white PP
- (ad) Box (#2) : lime
- (ae) Box (#5) : pink
- (af) Box (#10) : orange

Coating material

- (ag) Instruction guide book (#2/#5/#7/#8/#10): red/orange/yellow/blue/green multicolor coating

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Elements	Result (mg/kg)			Limit(mg/kg)
	a	b	c	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	0.3	ND	180000
Organic tin	ND	0.3	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	d	e	f	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	g	h	i	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	j	k	l	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	m	n	o	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	p	q	r	
Aluminium	5.6	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	0.2	ND	180000
Organic tin	ND	0.2	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	s	t	u	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	v	w	x	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	0.2	ND	ND	180000
Organic tin	0.2	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	y	z	aa	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	ab	ac	ad	
Aluminium	ND	ND	ND	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

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Elements	Result (mg/kg)			Limit(mg/kg)
	ae	af	ag	
Aluminium	ND	ND	13.9	70000
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	5.7	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium(III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.2
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	160
Manganese	ND	ND	11.6	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	33.9	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

Remark: ND = Not detected (see Table A)
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.

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Table A. Detection limit	
Elements	Limit of Detection (mg/kg)
Aluminium	5
Antimony	5
Arsenic	5
Barium	5
Boron	5
Cadmium	2.5
Chromium(III)	0.2
Chromium (VI)	0.2
Cobalt	5
Copper	5
Lead	5
Manganese	5
Mercury	5
Nickel	5
Selenium	5
Strontium	5
Tin	0.2
Organic tin	0.2
Zinc	5

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

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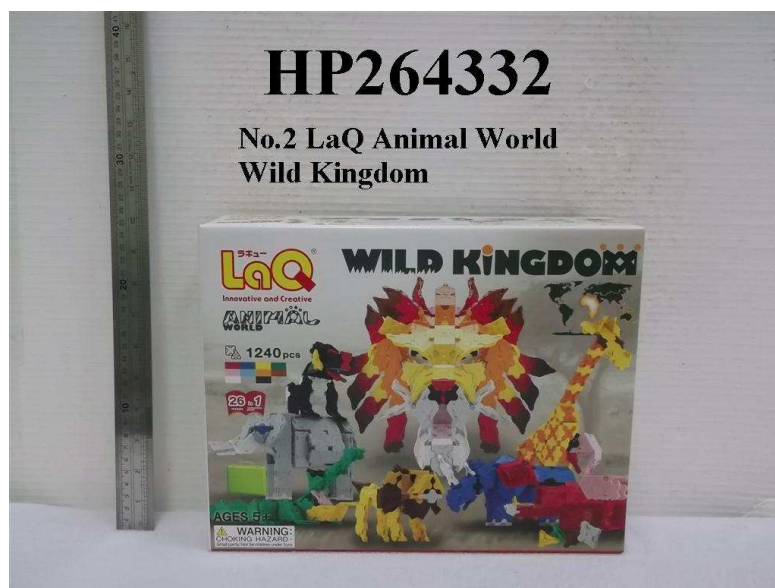


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Appendix for Photos of the Submitted Sample



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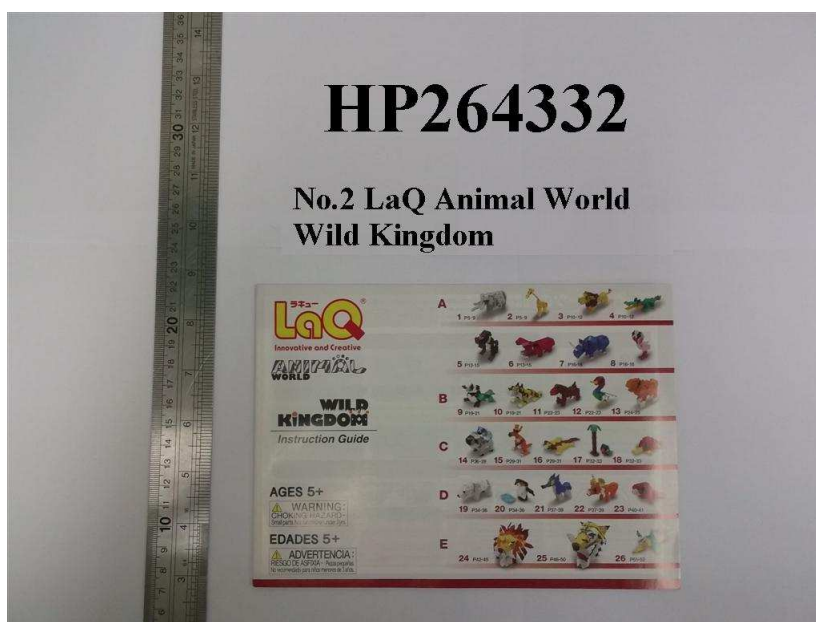
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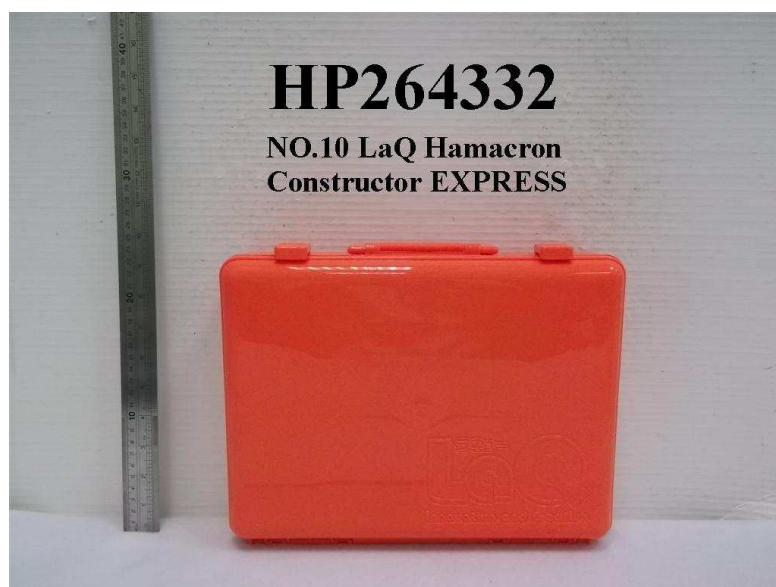
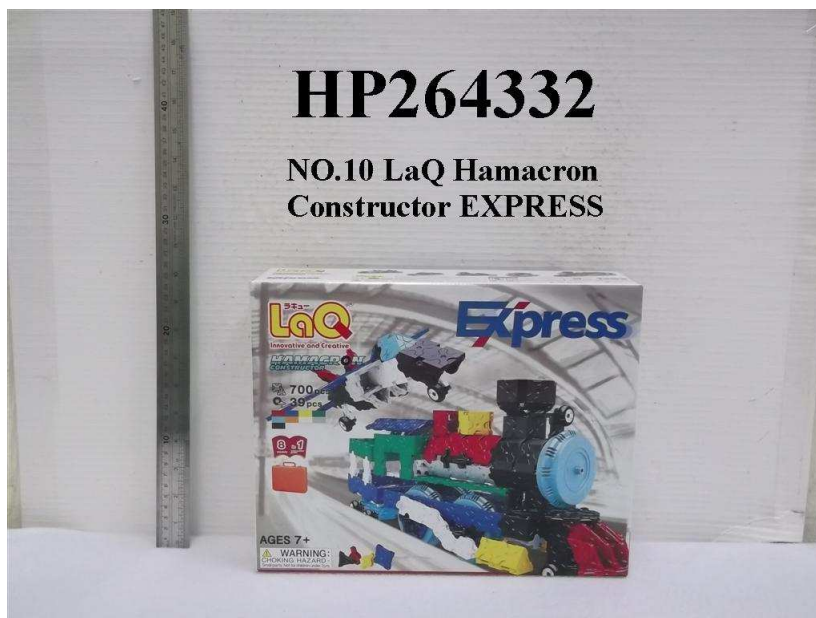
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