

Test Report

Number: SHAH01173069

Applicant: PINGHU SHUANGXI BABY CARRIER MANUFACTURE
CO., LTD.
XINCANG TOWN, PINGHU CITY, ZHEJIANG
PROVINCE, CHINA
Attn: XUQIUPING

Date: Jan 09, 2020

Sample Description:

One (1) group of submitted sample said to be **Ride On Car**
Item Name : Ride On Car
Item No. : SX1919
Labelled Age Group : 37-95

Tests Conducted:

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

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Sample set	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties	Pass
	EN71-2: 2011+A1: 2014 Flammability Test	Pass
	U.S. ASTM F963-17-Physical And Mechanical Tests Excluding Battery-Operated Toy Requirement of Section 4.25, 5.15, 6.5,6.6 & 7.2	Pass
	U.S. ASTM F963-17-Flammability Test of Materials Other Than Textile Materials	Pass
	Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels for Children Products	Pass
	EN62115:2005+A12:2015 on safety of electric toy Excluding Annex C, E and ZC	Pass (subjected to remarks enclosed)
Tested components of submitted sample	EN 71-3:2019 on migration of certain elements	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



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<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted sample	U.S. ASTM F963-17 for heavy metal elements test on surface coating material	Pass
Tested components of submitted sample	U.S. ASTM F963-17 section 4.3.5.2(2)(b) for soluble elements content for non-surface coating materials	Pass
	U.S. ASTM F963-17 for total Lead content	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
Tested component of submitted sample	U.S. Code of Federal Regulations title 16 part 1303 for total Lead content in surface coating	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating	Pass
Tested components of submitted sample	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
	Phthalates content requirement in Annex XVII Items 51&52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass
	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

To be continued

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Tests Conducted

1 Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For Ages from 37 to 95months

Clause	Testing Items	Assessment
4	General Requirements	
4.1	Material	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	P
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA



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Clause	Testing Items	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	P
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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Remark: P = Pass NA = Not Applicable

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name and address was on the product & packaging.
- Importer's name and address was missed.
- Product identification code was on the product & packaging.
- CE-marking was missed.

Date Sample Received: Dec.4, 2019 & Dec.17, 2019 & Dec.25, 2019

Testing Period: Dec.4, 2019 to Dec.25, 2019

2 Flammability Test

As per European Standard on Safety of Toys EN71-2: 2011+A1: 2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass NA = Not Applicable

Date Sample Received: Dec.4, 2019 & Dec.17, 2019

Testing Period: Dec.4, 2019 to Dec.19, 2019

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Tests Conducted

3 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's Specified Age Group for Testing: For Ages from 37 to 95months

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: -		
Test	FHSA	Parameter
Impact Test	Section 1500.53(b)	4 x 3.0 ft
Tip over Test	Section 1500.53(b)	3 times
Torque Test	Section 1500.53(e)	4 in-lbf
Tension Test	Section 1500.53(f)	15 lbf
Compression Test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material Quality	P
4.5	Sound-Producing Toys	P
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	NA
4.7	Accessible Edges	P
4.8	Projections	P
4.9	Accessible Points	P
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	P
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	P
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles	P
4.18	Holes, Clearance, and Accessibility of Mechanisms	P
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NC#1
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA



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<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labelling Requirement	P
6	Instructional Literature	P
7	Producer's Markings	#1
	- Name of Producer/Distributor (Toy & Package)	No
	- Address (Toy & Package)	No

Remark: The submitted samples were undergone the tests in accordance with Section 8.5 through Section 8.18 and 8.21 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = Not Applicable NC=Not Conducted

#1 = As applicant's request, section 4.25, 5.15, 6.5, 6.6,7.2 for battery-operated toys were not assessed.

Date Sample Received: Dec.4, 2019 & Dec.17, 2019

Testing Period: Dec.4, 2019 to Dec.19, 2019

4 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

Date Sample Received: Dec.4, 2019 & Dec.17, 2019

Testing Period: Dec.4, 2019 to Dec.19, 2019

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5 Tracking Label Assessment

As per Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels For Children Products.

Tracking Label Found on the Packaging:
Pinhu shuangxi baby carrier manufacture Co ltd
20191214
Zhejiang pinghu China
HLX1207

Tracking Label Found on the Product:
Pinhu shuangxi baby carrier manufacture Co ltd
20191214
Zhejiang pinghu China
HLX1207

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

Date Sample Received: Dec.4, 2019 & Dec.17, 2019

Testing Period: Dec.4, 2019 to Dec.19, 2019

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6 Safety of electric Toys

As per European standard EN62115:2005+A12:2015 on safety of electric toys .

Applicant's specified age group for testing : For ages from 37 to 95 months

Power source: 12 V, 7 Ah, Lead-acid rechargeable battery x 1pc in vehicle

Charger type: Input 220-240 V A.C., Output 12 V D.C.(Provided)
Charger model: HKI-D12-1000

Electric Operated Function : Battery powered motion, sound and LED light.

<u>Clause</u>	<u>Testing Items</u>	<u>Assessment</u>
1	Scope	--
2	Normative references	--
3	Definitions	--
4	General requirement	--
5.13	Battery polarity reversed	P
6	Criteria for reduced testing	--
7	Marking and instructions	P
8	Power input	NA
9	Heating and abnormal operation	P
10	Electric strength at operating temperature	P
11	Moisture resistance	P
12	Electric strength at room temperature	P
13	Mechanical strength	P
14	Construction	P
15	Protection of cords and wires	P
16	Components	P
17	Screws and connections	See Remark (1) P
18	Creepage distances and clearances	P
19	Resistance to heat and fire	P
20	Radiation, toxicity and similar hazards	See Remark (2)

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Tests Conducted

P = Pass
Remark:

NA = Not applicable

- (1) Applicant needs to ensure that components used in toys including charger as specified in Clause 16.1 and 16.4 comply with relevant IEC safety standards and meet the national deviation of the importing countries.
- (2) This test only covers the essential safety requirements concerning electrical properties on the safety of toys and in order to comply with EN 62115: 2005 + A12: 2015, electrical toys shall not emit harmful radiation due to their operation in normal use and shall comply class 1 accordance with IEC 60825-1 or EN 60825-1 for the lasers and light emitting diodes (LED). Toys with an integrated field source generating EMF shall comply with EN 62233.

Date Sample Received: Dec.4, 2019
Testing Period: Dec.4, 2019 to Dec.27, 2019

7 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)					Limit (mg/kg)
	(1)#	(2)	(3)	(4)	(5)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	78	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000

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Tests Conducted

Element	Result (mg/kg)					Limit (mg/kg)
	(6)	(7)#	(8)	(9)	(10)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025#	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	127	46000

Remark: mg/kg = Milligram per kilogram

spl. wt. = Sample weight

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

The sample weight in bracket was for soluble toxic elements analysis only.

Tested Components: See component list in the last section of this report.

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Tests Conducted

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.7, 2020

8 Heavy Metal Elements Analysis (Surface Coating)

As per section 4.3.5.1 of the ASTM standard consumer safety specification on toy safety F963-17, CPSC-CH-E1003-09.1 and extraction methods were used and heavy metal elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
	(1)	
Total Lead (Pb)	<10	90
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Remark: Sol. = soluble

ppm = parts per million = mg/kg

spl.wt. = sample weight

Tested components: See component list in the last section of this report.

To be continued



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Tests Conducted

The sample weight in bracket was for soluble heavy elements analysis only.

Date Sample Received: Dec.4, 2019

Testing Period: Dec.4, 2019 to Dec.27, 2019

9 Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(b) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result (ppm)</u>										<u>Limit (ppm)</u>
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

Remark: Sol. = soluble
ppm = parts per million = mg/kg

Tested components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.7, 2020

10 Total Lead (Pb) Content

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method, CPSC-CH-E1002-08.3 and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

<u>Tested component</u>	<u>Result in ppm</u>	<u>Limit (ppm)</u>
(1)	<20	90

(II) Non-surface coating

<u>Tested component</u>	<u>Result in ppm</u>	<u>Limit (ppm)</u>
(2+3+4)	<10	100
(5+6)	<10	100
(7+8)	<10	100
(9)	<10	100
(10)	<10	100

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Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.7, 2020

11 Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method CPSC-CH-E1002-08.3 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(2+3+4)	<10	100
(5+6)	<10	100
(7+8)	<10	100
(9)	<10	100
(10)	<10	100

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.7, 2020

12 Total Lead (Pb) Content In Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1)	<20	90

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019

Testing Period: Dec.4, 2019 to Dec.27, 2019

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13 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children /children care articles:

<u>Compound</u>	<u>Result (mg/kg)</u>							<u>Requirement (mg/kg)</u>
	(1)	(2)	(3+4)	(5+6)	(7+8)	(9)	(10)	<u>(Max.)</u>
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.3	0.5
Benzo(e)pyrene	ND	ND	ND	ND	ND	ND	0.3	0.5
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.5

Remark : The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).

ND = Not Detected
 Detection limit = 0.2 mg/kg

Tested components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.8, 2020

 To be continued



Test Report

Number: SHAH01173069

Tests Conducted

14 Phthalate Content

With reference to ISO 8124-6: 2018 method A or C, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Tested Compound	CAS No.	Result (% w/w)						Limit (% w/w) (Max.)
		(1)	(2+3+4)	(5+6)	(7+8)	(9)@	(10)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	ND	ND	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	ND	ND	ND	ND	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	ND	ND	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	ND	ND	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	ND	ND	ND	ND	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

For toys and childcare articles, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

For non-toys and non-childcare articles, DBP, DEHP, BBP, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

II. Annex XVII Item 52

Tested Compound	CAS No.	Result (% w/w)						Limit (% w/w) (Max.)
		(1)	(2+3+4)	(5+6)	(7+8)	(9)@	(10)	
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	ND	ND	ND	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: Detection Limit = 0.01%(w/w)

ND = Not Detected

@ = As requested by the applicant, the surface coatings were tested with the substrate for phthalate test. With the consideration of the dilution factor, the testing result may not represent the result of the individual coatings and substrate.

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec.4, 2019

Testing Period: Dec.4, 2019 to Jan.9, 2020

To be continued



Test Report

Number: SHAH01173069

Tests Conducted

15 Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)						Limit (%) (Max.)
	(1)	(2+3+4)	(5+6)	(7+8)	(9)	(10)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	ND	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected
 Detection Limit = 0.01%

Tested Components: See component list in the last section of this report.



Picture of sample

Date Sample Received: Dec.4, 2019 & Jan.3, 2020

Testing Period: Dec.4, 2019 to Jan.6, 2020

To be continued



Test Report

Number: SHAH01173069

Tests Conducted

Components List:

- (1) Black coating on metal. (on frame) (spl. wt. = 73mg)
- (2) Red plastic. (body)
- (3) Black plastic. (body)
- (4) Gold color plastic. (head)
- (5) Black plastic. (gear box)
- (6) Grey plastic. (on gas pedal)
- (7) Transparent red plastic. (switch)
- (8) Transparent plastic. (front light)
- (9) White adhesive plastic film with transparent plastic film and underlying coatings. (sticker)
- (10) Black soft plastic. (tyre)

End of report

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