

Test Report

Number: SHAH01030877

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

Date: 27 Nov, 2018

Sample Description:

Four (4) pieces of submitted sample said to be :
Item Name : Ride On Car
Item No. : SX1918

Tests Conducted:

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

Conclusion:

Tested sample	Standard	Result
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties Excluding Clause 4.2,4.15.1.2, 7.1 and 7.10	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, 6 & 7	Pass
	U.S. ASTM F963-17- Flammability Test of Materials Other Than Textile Materials	Pass
Submitted Sample Set	EN 62115: 2005 + A12: 2015 for Safety of Electric Toy Excluding Clause 7, Annex E, ZB and ZC	Pass (Subjected to remarks enclosed)
Tested components of submitted sample	EN 71-3:2013+A3:2018 on migration of certain elements	Pass
	EN 71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass
Tested component 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

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Leo Shi
General Manager



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<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted sample	U.S. ASTM F963-17 for soluble elements content in surface coating	Pass
	U.S. ASTM F963-17 for total Lead content	Pass
	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	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Leo Shi
General Manager



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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 months to 95 months.

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Protective Components	8.4.2.3	60 N

Clause	Testing Items	Assessment
4	General Requirements	
4.1	Material	P
4.2	Assembly	#1
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	P
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#1
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	P
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



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Clause	Testing Items	Assessment
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
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	NC#1
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	NC#1
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
= As requested by the applicant, Clause 4.2, 4.15.1.2, 7.1 and 7.10 were not assessed.

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.

- All the above markings were not found.

Date Sample Received: Nov.13, 2018
Testing Period: Nov.13, 2018 to Nov.26, 2018

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: Nov.13, 2018
Testing Period: Nov.13, 2018 to Nov.26, 2018

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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 months to 95 months.

Test	FHSA	Parameter
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	NA
4.15	Stability and Over-Load Requirements	P
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
4.31	Balloons	NA



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<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
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	NC#1
6	Instructional Literature	NC#1
7	Producer's Markings - Name of Producer/Distributor - Address	NC#1

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, 6 & 7 for battery-operated toys were not assessed.

Date Sample Received: Nov.13, 2018 & Nov.26, 2018

Testing Period: Nov.13, 2018 to Nov.26, 2018

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: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.26, 2018

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Tests Conducted

5 Safety of Electric Toys

As per European standard EN 62115: 2005 + A12: 2015 on safety of electric toys.

Applicant's specified age group for testing : For ages 37-95 months.

Power source : 3 V, LR6 size x 2 pcs in remote control (Replaceable)
12 V, 7.0 Ah, Lead-acid rechargeable battery x 1pcs in vehicle (Non-replaceable)

Charger type : Input 220 V A.C., Output 12 V D.C.(Provided)
Charger model : HK012A-120100

Electric operated function : Battery powered motion, sound and LED light.

Clause	Testing items	Assessment
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
		See Remark (1)
8	Power input	NA
9	Heating and abnormal operation	P
		See Remark (2)
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
		See Remark (3)
17	Screws and connections	P
18	Creepage distances and clearances	P
19	Resistance to heat and fire	P
20	Radiation, toxicity and similar hazards	See Remark (4)
P = Pass		
NA = Not applicable		

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Tests Conducted

Remark:

- (1) As request by the applicant, packaging of Clause 7 was not assessed.
- (2) As request by the applicant, the Annex ZB circuit influence from electromagnetic phenomena (EMP) was not assessed.
- (3) 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.
- (4) 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 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: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.26, 2018

6 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2013+A3:2018 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)#	(5)#	(7)	(8)#Δ	(9)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053◎
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	46000

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Tests Conducted

Element	Result (mg/kg)						Limit (mg/kg)
	(10)	(11)	(12)	(13)	(14)	(15)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)						Limit (mg/kg)
	(16)	(17)	(18)#Δ	(19)	(20)	(21)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

Element	Result (mg/kg)						Limit (mg/kg)
	(22)	(23)	(24)	(25)	(26)	(27)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)						Limit (mg/kg)
	(28)Δ	(29)	(30)	(31)	(32)#	(33)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	46000

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(34)	(35)	(40)	(41)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	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.

© = THE NEW CHROMIUM (VI) MIGRATION LIMIT [(0.053MG/KG FOR CATEGORY (III))] WERE QUOTED FROM DIRECTIVE (EU) 2018/725 AMENDING 2009/48/EC EFFECTIVE FROM 18 NOVEMBER 2019.

= 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).

Δ = Confirmation test was performed on the tested component. The reported value was calculated by summation of the migration values of Methyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Monobutyl tin and Triphenyl tin

Tested Component(s): See component list in the last section of this report.

@ = Since the sample weight of the components (3)&(4) was less than 10 mg, soluble heavy metal analysis was not applicable.

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

To be continued



Test Report

Number: SHAH01030877

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: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.24, 2018

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

As per section 4.3.5.2(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>
	(41)	
Sol. Barium (Ba)	82	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

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

Date Sample Received: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.24, 2018

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

8 Soluble Elements Analysis In Surface Coating

As per section 4.3.5.1(2) 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.

	(1)	Result (ppm) (2)	(5)	Limit (ppm)
Sol. Barium (Ba)	<5	<5	391	1000
Sol. Lead (Pb)	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<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.

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

Remark: @ = Since the sample weight of the components (3)&(4) was less than 10 mg, soluble elements analysis was not conducted. Only total Lead content was tested.

Date Sample Received: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.24, 2018

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

9 Total Lead (Pb) Content

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test methods CPSC-CH-E1001-08.3, 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
(5)	<20	90

(II) Non-surface coating

<u>Tested component</u>	<u>Result in ppm</u>	<u>Limit (ppm)</u>
(7)	<10	100
(8)	<10	100
(9+10+11)	<10	100
(12+13+14)	<10	100
(15+16+17)	<10	100
(19)	<10	100
(20)	<10	100
(21)	<10	100
(22+23+24)	<10	100
(25+26+27)	<10	100
(28)	<10	100
(29)	<10	100
(30+31)	<10	100
(33+34+35)	<10	100
(36+37)	<10	100
(38+39)	<10	100

Remark: ppm = parts per million = mg/kg

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

Date Sample Received: Nov.13, 2018 & Nov.21, 2018

Testing Period: Nov.13, 2018 to Nov.24, 2018

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

10 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)	(7)	(8)	(9+10+11)@	(12+13+14)@	(Max.)
Benzo(a)pyrene	ND	ND	ND	ND	ND	0.5
Benzo(e)pyrene	ND	ND	ND	ND	ND	0.5
Benzo(a)anthracene	ND	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	0.5

<u>Compound</u>	<u>Result (mg/kg)</u>				<u>Requirement (mg/kg)</u>
	(15+16+17)@	(18+19+20)@	(21)	(22+23+24)@	(Max.)
Benzo(a)pyrene	ND	ND	ND	ND	0.5
Benzo(e)pyrene	ND	ND	ND	ND	0.5
Benzo(a)anthracene	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.5

<u>Compound</u>	<u>Result (mg/kg)</u>					<u>Requirement (mg/kg)</u>
	(25+26+27)@	(28)	(29)	(30+31)	(33+34+35)@	(Max.)
Benzo(a)pyrene	ND	ND	ND	ND	ND	0.5
Benzo(e)pyrene	ND	ND	ND	ND	ND	0.5
Benzo(a)anthracene	ND	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	0.5

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

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

@ = Conclusion was drawn based on the result of mixing sample according to client's request, will not represent that of individual material contained in the mixed sample.

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

Date Sample Received: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.26, 2018

11 Phthalate content test

With reference to EN 14372, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Tested compound	Result (%w/w)						Limit(%w/w) (MAX.)
	(1)	(6)	(7)	(8)	(9+10+11)	(12+13+14)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	ND	ND	---
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	ND	ND	---
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	ND	ND	---
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	ND	ND	0.1

Tested compound	Result (%w/w)				Limit(%w/w) (MAX.)
	(15+16+17)	(18+19+20)	(21)	(22+23+24)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	---
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	---
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	---
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1

Tested compound	Result (%w/w)				Limit(%w/w) (MAX.)
	(25+26+27)	(28)	(29)	(30+31)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	---
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	---
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	---
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1

To be continued



Test Report

Number: SHAH01030877

Tests Conducted

Tested compound	Result (%w/w)				Limit(%w/w) (MAX.)
	(33+34+35)	(42+43)	(44+45+46)	(47+48+49)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	---
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	---
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	---
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1

Tested compound	Result (%w/w)				Limit(%w/w) (MAX.)
	(50+51+52)	(53+54+55)	(56)	(57+58)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	---
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	---
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	---
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	---
Sum of three phthalates	ND	ND	ND	ND	0.1

Tested compound	Result (%w/w)	Limit(%w/w) (MAX.)
	(59+60)	
Di-butyl phthalate (DBP)	ND	---
Di(2-ethyl hexyl) phthalate(DEHP)	ND	---
Benzyl butyl phthalate (BBP)	ND	---
Sum of three phthalates	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	---
Di-n-octyl phthalate (DNOP)	ND	---
Di-iso-decyl phthalate (DIDP)	ND	---
Sum of three phthalates	ND	0.1

Remark: The above limit was quoted according to Annex XVII items 51 & 52 of the REACH regulation (EC) NO.1907/2006 & Amendment NO.552/2009 for phthalate content in toys and children care articles.

Detection limit = 0.01%(w/w)
ND = Not detected

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

Date Sample Received: Nov.13, 2018

Testing Period: Nov.13, 2018 to Nov.22, 2018

To be continued



Test Report

Number: SHAH01030877

Tests Conducted



Components List:

- (1) Black coating on metal. (on frame) (spl.wt. = 22 mg)
- (2) Bright silver color coating on plastic. (on head) (spl.wt. = 39 mg)
- (3) White coating on plastic. (on switch of dashboard)
- (4) Black coating on plastic. (on wheel)
- (5) Black/yellow/red coatings on plastic. (warning sticker) (spl.wt. = 39 mg)
- (6) PCB board. (inside)
- (7) White adhesive plastic film and underlying coatings. (sticker)
- (8) Gray adhesive foam with silver color plastic film. (logo on steering wheel & rear & on cover of wheel)
- (9) Transparent plastic. (head logo)
- (10) White plastic. (body)
- (11) Black plastic. (body)
- (12) Transparent plastic. (front & rear light)
- (13) Semi-transparent red plastic excluding coating. (switch on dashboard)
- (14) Transparent plastic. (screen on dashboard) (spl.wt. = 61 mg)
- (15) Transparent plastic. (rear view)

To be continued



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Tests Conducted

- (16) Black plastic. (gear box)
- (17) Light gray plastic. (switch on dashboard) (spl.wt. = 85 mg)
- (18) White plastic. (socket of USB)
- (19) Gray plastic. (gas pedal & on wheel)
- (20) Transparent black plastic. (windshield)
- (21) Silver adhesive plastic. (rear logo)
- (22) Red soft plastic. (wire skin)
- (23) Black soft plastic. (wire skin)
- (24) White soft plastic. (wire skin)
- (25) White soft plastic. (wire skin of MP3)
- (26) Beige soft plastic. (plug of MP3)
- (27) Black soft plastic. (wire protect)
- (28) Black soft plastic. (small wheel)
- (29) Black foam. (tyre)
- (30) Semi-transparent plastic. (binding)
- (31) White plastic. (belt)
- (32) Dull blue plastic. (in nut) (spl.wt. = 24 mg)
- (33) Red plastic excluding coating. (on wheel)
- (34) Transparent plastic. (on wheel's PCB board)
- (35) Blue plastic. (on remove control)
- (36) Silver color metal. (screw)
- (37) Silver color metal with black treatment. (rivet)
- (38) Silver color metal. (plug of MP3)
- (39) Silver color metal excluding coating. (frame)
- (40) Black/reddish brown woven fabric. (safety tape)
- (41) White adhesive plastic with black/yellow/red coatings. (warning sticker)
- (42) Black plastic. (on battery)
- (43) Black plastic. (on battery)
- (44) Beige plastic. (plug inside)
- (45) White plastic. (plug inside)
- (46) Red plastic. (plug inside)
- (47) Black plastic. (plug inside)
- (48) White plastic. (gear inside gear box)
- (49) Dull beige plastic. (on motor)
- (50) Pink soft plastic. (inside wire skin)
- (51) Yellow soft plastic. (inside wire skin)
- (52) Brown soft plastic. (inside wire skin)
- (53) Orange soft plastic. (inside wire skin)
- (54) Green soft plastic. (inside wire skin)
- (55) Purple soft plastic. (inside wire skin)
- (56) Semi-transparent soft plastic. (inside back of switch)
- (57) Transparent plastic. (rear light)
- (58) Transparent plastic. (led inside)
- (59) Transparent plastic. (inside box of fuse)
- (60) White plastic. (coupling)

End of report

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