

Test Report

Number: SHAH01670431

Applicant: SHANGHAI HAPPY CHILDREN FACTORY
NO.1002, XINJIANFENG,
JINGYANG VILLAGE, LANG XIA TOWN,
JIN SHAN DISTRICT, SHANGHAI

Date: 10 May, 2024

Sample Description:

One (1) group of submitted sample said to be :
Item Name : Battery Operated car, Ride-On Car
Item No. : A013
Labelled Age Group : 3+
Packaging Provided By Applicant : Yes
Goods Exported To : EU USA.
Country Of Origin : China.

Tests Conducted:

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

Conclusion:

Tested Sample	Standard	Result
Submitted Sample	U.S. ASTM F963-17 Physical And Mechanical Tests Excluding section 4.25, 5.15, 6.5, 6.6,7.2	Pass
Submitted Sample	U.S. ASTM F963-23 Physical and Mechanical Tests Excluding section 4.25, 5.14, 6.5, 6.6, 6.9 & 7.2	Pass
Submitted Sample	U.S. ASTM F963-17 Flammability Test of Materials Other Than Textile Materials	Pass
Submitted Sample	U.S. ASTM F963-23 Flammability Test of Materials other than Textile Materials	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-17 for total Lead content in surface coating	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-23 for total Lead content in surface coating	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-17 for total Lead content in non-surface coating materials	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-23 for total Lead content in non-surface coating materials	Pass

Prepared And Checked By:
For Intertek Testing Services Wuxi Ltd.



Bill Zhang
General Manager



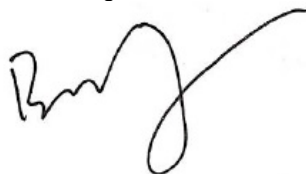
Test Report

Number: SHAH01670431

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested Components 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 F963-23 for heavy metal elements test on surface coating material	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-23 section 4.3.5.2(2)(a)(b) for heavy metal elements test on non-surface coating materials	Pass
Tested Components Of Submitted Sample	U.S. ASTM F963-17 section 4.3.5.2(2)(a)(b) for heavy metal elements test on non-surface coating materials	Pass
Tested Components Of Submitted Sample	ASTM F963-23 section 4.3.8 on Phthalates content	Pass
Tested Components Of Submitted Sample	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
Tested Components Of Submitted Sample	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	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
Tested Components Of Submitted Sample	EN 71-3:2019+A1:2021 on migration of certain elements	Pass
Tested Components Of Submitted Sample	Phthalates content requirement in Annex XVII Item 51 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
Tested Components Of Submitted Sample	Phthalates content requirement in Annex XVII Items 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 (formerly known as Directive 2005/84/EC)	Pass
Submitted Sample	Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels for Children Products	Pass

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General Manager



Test Report

Number: SHAH01670431

Tests Conducted

1 Physical and Mechanical Tests

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

Applicant's Specified Age Group for Testing: Over 36 months

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: -		
<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
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

<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
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	NR#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



Test Report

Number: SHAH01670431

Tests Conducted

<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#1
6	Instructional Literature	P#1
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 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = Not Applicable NR= Not Requested

#1 = The section 4.25, 5.15, 6.5, 6.6,7.2 for Battery-powered Ride-on Toys were not assessed

Date Sample Received: 22 Mar, 2024 & 11 Apr, 2024

Testing Period: 22 Mar, 2024 to 11 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

2 Physical and Mechanical Tests

Test standard: ASTM Standard Consumer Safety Specification for Toy Safety F963-23.

Applicant's specified age group for testing: Over 36 months

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	---	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

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Section	Requirement	Result
4.1	Material Quality (Visual check on cleanliness)	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 children at least 36 months but less than 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 (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA



Test Report

Number: SHAH01670431

Tests Conducted

Section	Requirement	Result
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NR#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
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	Yoyo 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#1
6	Instructional literature	P#1
7	Producer's markings	
7.1	Name of producer/distributor	YES #1
	Address	YES #1
7.3	Toy chests	
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Abbreviation: P = Pass NA= Not Applicable NR= Not Requested

Remark:

1= As requested by the applicant, section 4.25, 5.14, 6.5, 6.6, 6.9 & 7.2 for battery-powered ride-on toys were not assessed.

Date sample received: 22 Mar, 2024 & 11 Apr, 2024

Testing period: 22 Mar, 2024 to 11 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

3 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: 22 Mar, 2024

Testing Period: 22 Mar, 2024 to 07 Apr, 2024

4 Flammability Test

Test requirement: Section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.

Date sample received: 22 Mar, 2024

Testing period: 22 Mar, 2024 to 07 Apr, 2024

5 Total Lead (Pb) Content for Surface Coating

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

Test Item	Result in ppm		Reporting Limit (ppm)	Limit (ppm)
	(1)	(2)		
Lead(Pb)	ND	ND	20	90

Remark: ppm = parts per million = mg/kg
ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

6 Total Lead (Pb) Content for Surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-23, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm		Reproting Limit (ppm)	Limit (ppm)
	(1)	(2)		
Lead(Pb)	ND	ND	20	90

Remark: ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024

7 Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3, was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(3+4+5)	(6+7+8)	(9+10+11)	(12+13)	(14+15+16)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(17+18)	(19+20)	(21)	(22)	(23)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(24)	(25)	(26)	(27)	(28+29)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Remark: ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

8 Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-23, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3, was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(3+4+5)	(6+7+8)	(9+10+11)	(12+13)	(14+15+16)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(17+18)	(19+20)	(21)	(22)	(23)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Test Item	Result in ppm					Reproting Limit (ppm)	Limit (ppm)
	(24)	(25)	(26)	(27)	(28+29)		
Lead(Pb)	ND	ND	ND	ND	ND	10	100

Remark: ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

9 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.

Test Item	Result (ppm)		Reporting Limit (ppm)	Limit (ppm)
	(1)	(2)		
Sol. Barium (Ba)	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	2.5	25

Remark: Sol. = Soluble
 ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

10 Heavy Metal Elements Analysis (Surface Coating)

As per section 4.3.5.1 of the ASTM standard consumer safety specification on toy safety F963-23, CPSC-CH-E1003-09.1 and extraction methods were used and heavy metal elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (ppm)		Reporting Limit (ppm)	Limit (ppm)
	(1)	(2)		
Sol. Barium (Ba)	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	2.5	25

Remark: Sol. = Soluble
ppm = parts per million = mg/kg
ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
Testing Period: 22 Mar, 2024 To 18 Apr, 2024

11 Heavy Metal Elements Analysis in Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(a)(b) of the ASTM standard consumer safety specification on toy safety F963-23, CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 and acid extraction method were used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (ppm)							Reporting Limit (ppm)	Limit (ppm)
	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	12	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	2.5	25



Test Report

Number: SHAH01670431

Tests Conducted

Test Item	Result (ppm)						Reporting Limit (ppm)	Limit (ppm)
	(10)	(11)	(12)	(13)	(14)	(15)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Test Item	Result (ppm)						Reporting Limit (ppm)	Limit (ppm)
	(16)	(17)	(18)	(19)	(20)	(21)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Test Item	Result (ppm)						Reporting Limit (ppm)	Limit (ppm)
	(22)	(23)	(24)	(25)	(26)	(27)		
Sol. Barium (Ba)	7	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Remark: Sol. = Soluble
 ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

12 Heavy Metal Elements Analysis in Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(a)(b) of the ASTM standard consumer safety specification on toy safety F963-17, CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 and acid extraction method were used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (ppm)							Reporting Limit (ppm)	Limit (ppm)
	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	12	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	2.5	25

Test Item	Result (ppm)						Reporting Limit (ppm)	Limit (ppm)
	(10)	(11)	(12)	(13)	(14)	(15)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Test Item	Result (ppm)						Reporting Limit (ppm)	Limit (ppm)
	(16)	(17)	(18)	(19)	(20)	(21)		
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25



Test Report

Number: SHAH01670431

Tests Conducted

Test Item	Result (ppm)						Reporting Limit	Limit
	(22)	(23)	(24)	(25)	(26)	(27)	(ppm)	(ppm)
Sol. Barium (Ba)	7	ND	ND	ND	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Remark: Sol. = Soluble
 ppm = parts per million = mg/kg
 ND= Not detected (Less than reporting limit)

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

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024

13 Phthalates Content (ASTM F963-23)

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

Test item	Result (%)				Detection Limit	Limit (%)
	(1)	(2)	(3+4+5)	(6+7+8)	(%)	(Max.)
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.01	0.1



Test Report

Number: SHAH01670431

Tests Conducted

Test item	Result (%)		Detection Limit (%)	Limit (%) (Max.)
	(9+10+11)	(12+13)		
Dibutyl phthalate (DBP)	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	0.01	0.1

Test item	Result (%)		Detection Limit (%)	Limit (%) (Max.)
	(14+15+16)	(17+18)		
Dibutyl phthalate (DBP)	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	0.01	0.1

Test item	Result (%)				Detection Limit (%)	Limit (%) (Max.)
	(19+20)	(21)	(22)	(23)		
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.01	0.1



Test Report

Number: SHAH01670431

Tests Conducted

Test item	Result (%)				Detection Limit (%)	Limit (%) (Max.)
	(24)	(25)	(26)	(27)		
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	0.02	ND	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.01	0.1

Remark: ND = Not Detected(Less than detection limit)

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

Date Sample Received: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024

14 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)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1

Test item	Result (%)				Limit (%) (Max.)
	(9+10+11)	(12+13)	(14+15+16)	(17+18)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1



Test Report

Number: SHAH01670431

Tests Conducted

Test item	Result (%)				Limit (%) (Max.)
	(19+20)	(21)	(22)	(23)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1

Test item	Result (%)				Limit (%) (Max.)
	(24)	(25)	(26)	(27)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	0.02	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	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.

Date Sample Received: 22 Mar, 2024
 Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

15 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-E1003-09.1 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
(2)	<20	90

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark: ppm = Parts per million = mg/kg

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

Date Sample Received: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024

16 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(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were 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>
(3+4+5)	<10	100
(6+7+8)	<10	100
(9+10+11)	<10	100
(12+13)	<10	100
(14+15+16)	<10	100
(17+18)	<10	100
(19+20)	<10	100
(21)	<10	100
(22)	<10	100
(23)	<10	100
(24)	<10	100
(25)	<10	100
(26)	<10	100
(27)	<10	100
(28+29)	<10	100

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate).

Remark: ppm = Parts per million = mg/kg

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

Date Sample Received: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

17 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)							Reporting Limit (mg/kg)	Limit (mg/kg)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	ND	12	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) ++	ND	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) ++	ND#	ND	ND#	ND	ND	ND#	ND#	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	45	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	4969	ND	ND	ND	ND	ND	ND	100	46000



Test Report

Number: SHAH01670431

Tests Conducted

Element	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(9)	(10)	(11)	(12)	(13)	(19)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) ++	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) ++	ND	ND	ND#	ND#	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(20)	(21)	(22)	(24)	(25)	(26)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) ++	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) ++	ND#	ND	ND#	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	46000



Test Report

Number: SHAH01670431

Tests Conducted

Remark : mg/kg = milligram per kilogram
++ = 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.
ND = Not detected (less than reporting limit)
= 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 the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019+A1:2021.

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

(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: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

18 Phthalate Content

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

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(1)	(2)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(3+4+5)	(6+7+8)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(9+10+11)	(12+13)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(14+15+16)	(17+18)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1



Test Report

Number: SHAH01670431

Tests Conducted

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(19+20)	(21)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(22)	(23)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(24)	(25)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	0.02	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	0.02	ND	0.01	0.1

Test Item	CAS No.	Result (%w/w)		Detection Limit (%w/w)	Limit (%w/w)
		(26)	(27)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	0.01	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	0.01	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	0.01	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.01	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	0.01	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.

Remark: ND = Not Detected (Less than detection limit)

@ = 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: 22 Mar, 2024

Testing Period: 22 Mar, 2024 To 18 Apr, 2024



Test Report

Number: SHAH01670431

Tests Conducted

19 Phthalate Content

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

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

Tested Compound	CAS No.	Result (% w/w)				Limit (% w/w)
		(9+10+11)	(12+13)	(14+15+16)	(17+18)	(Max.)
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	ND	0.1

Tested Compound	CAS No.	Result (% w/w)				Limit (% w/w)
		(19+20)	(21)	(22)	(23)	(Max.)
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	ND	0.1

Tested Compound	CAS No.	Result (% w/w)				Limit (% w/w)
		(24)	(25)	(26)	(27)	(Max.)
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	ND	0.1



Test Report

Number: SHAH01670431

Tests Conducted

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: 22 Mar, 2024
Testing Period: 22 Mar, 2024 To 18 Apr, 2024

20 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 & Product:

ITEM NO.: A013

PRODUCTION DATE: 20244.03

BATCH NO.: HZL2403

MANUFACTURER: SHANGHAI HAPPY CHILDREN FACTORY NO.1002, XIN JIAN FENG JING YANG VILLAGE, LANGXIA TOWN JINSHAN DISTRICT, SHANGHAI, CHINA

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: 22 Mar, 2024
Testing Period: 22 Mar, 2024 To 10 May, 2024



Test Report

Number: SHAH01670431

Tests Conducted

Photo





Test Report

Number: SHAH01670431

Tests Conducted

The Photos Were Submitted By The Client, Not Tested, Only For Reference.





Test Report

Number: SHAH01670431

Tests Conducted

Components List:

- (1) Silver grey coating on plastic(front fence).
- (2) Black coating on metal(chassis).
- (3) Blue plastic(body).
- (4) Black plastic(bumper).
- (5) Transparent plastic(front light).
- (6) Red transparent plastic(front light, tail light).
- (7) Black plastic(steering wheel).
- (8) Black plastic(seat).
- (9) Grey plastic(accelerator pedal).
- (10) White plastic(wheel hub).
- (11) Black plastic(front exhaust funnel).
- (12) White plastic(remote control).
- (13) Black plastic(remote control button).
- (14) Black plastic(foot pedal).
- (15) Black plastic(wheels).
- (16) Black plastic(button on music player).
- (17) White plastic(coupling of wheel).
- (18) Black plastic(charger).
- (19) White soft plastic(MP3 wire).
- (20) White soft plastic(MP3 wire end).
- (21) Red transparent plastic with white printing(button).
- (22) Black plastic with white printing(button).
- (23) Black, white soft plastic(charger wire).
- (24) Black soft plastic(charger wire end).
- (25) White adhesive plastic film with grey, black printing with soft plastic(logo sticker).
- (26) White adhesive plastic film with multi-color printing(body sticker).
- (27) Transparent adhesive plastic film with black, white printing(music player).
- (28) Silver color metal excluding coating(chassis).
- (29) Silver color metal(screw).

End Of Report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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