

Test Report

Applicant : ROYALBABY CYCLE BEIJING CO., LTD.
RM718, 8 SI JI QING RD., HAIDIAN DIST., BEIJING, CHINA
Attn :Jennifer Gao

NUMBER : TSNH00295961
Date : Mar 06, 2019

Sample Description:

Two (2) submitted samples said to be
Item Name :BALANCE BIKE
Item No. :CM-B001/CM-B001K//CM-B001B/CM-B001P/CM-B001R/CM-B001KR/
CM-B001NB/CM-B001DP
Age Grading :From 2 to 5 years old
Supplier :ROYALBABY CYCLE BEIJING CO., LTD.
Country of Destination :Europe
Country of Origin :China

Tests Conducted:

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

Conclusion:

Tested Samples/Components	Standard	Result
Submitted Samples	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
Submitted Samples	EN71-2: 2011+A1: 2014 Flammability Test	Pass
(1),(2),(3),(4),(5),(6),(7),(8),(9), (10),(11),(12),(13),(14),(15), (16),(17),(18),(19),(20),(21), (22)&(23)	EN71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass

To be continued

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.



David Zhang
Senior Manager



Test Report

NUMBER : TSNH00295961

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: From two to five years old

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90 N
Protective components	8.4.2.3	60 N
Tip over test	8.6	Three times
Impact test	8.7	1 kg
Compression test	8.8	110 N

Clause	Testing items	Assessment
4	General requirements	
4.1	Material cleanliness	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	Projectiles	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 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	

Test Report

NUMBER : TSNH00295961

Clause	Testing items	Assessment
5.1	General requirements	P
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
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	NA
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, inlineskates and skateboards and certain other ride-on toys	P
7.11	Toys otherwise 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

Test Report

NUMBER : TSNH00295961

Clause	Testing items	Assessment
7.26	Improvised projectiles	NA

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

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

To be continued

Test Report

NUMBER : TSNH00295961

3. 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+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)						Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component							
	(1)	(2)	(3)	(4)	(5)	(6)		
Aluminium (Al)	1188	ND	ND	938	383	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	369	13	17	300	207	395	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	20	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	18	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	13	31	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	13	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	323	270	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	10	180000
Organic tin **	ND	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	352	ND	ND	ND	ND	854	100	46000

To be continued

Test Report

NUMBER : TSNH00295961

Element	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component							
	(7)	(8)	(9)	(10)	(11)	(12)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	388	126	215	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	109	ND	42	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	578	ND	214	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	10	180000
Organic tin **	ND	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component							
	(13)	(14)	(15)	(16)	(17)	(18)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	22	ND	13	ND	ND	11	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	10	180000
Organic tin **	ND	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	46000

To be continued



Test Report

NUMBER : TSNH00295961

Element	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component						
	(19)	(20)	(21)	(22)	(23)		
Aluminium (Al)	ND	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	16	ND	ND	458	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND#	ND#	ND#	ND#	ND#	0.025	0.053 [©]
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	10	180000
Organic tin **	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	434	ND	ND	ND	ND	100	46000

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)

© = 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).

To be continued

Test Report

NUMBER : TSNH00295961

Tested Component(s):

- (1) Blue/white/yellow color coating on metal for sample A use (frame)
- (2) Transparent with yellow base coating on metal for sample A use (front fork)
- (3) Black color coating on metal for sample B use (frame)
- (4) Transparent with black base coating on metal for sample B use (front fork)
- (5) Black coating on metal for all samples use (handlebar&stem)
- (6) Black coating on metal for all samples use (seat post)
- (7) Black coating on metal for all samples use (quick release)
- (8) Black coating on metal for sample B use (spoke)
- (9) Black coating on metal for sample B use (rim of wheel)
- (10) Black coating on metal for sample B use (hub)
- (11) Black plastic for all samples use (grip)
- (12) Black plastic for all samples use (saddle support)
- (13) Black synthetic leather for all samples use (saddle cover)
- (14) Black plastic for sample A use (tyre)
- (15) Black plastic for sample B use (tyre)
- (16) Black plastic for sample A use (rim of wheel)
- (17) Plastic sticker warning on handbar for all samples use
- (18) Plastic sticker warning on frame for all samples use
- (19) Black plastic ring for all samples use
- (20) Black belt for all samples use
- (21) Silver color coating on metal for samples A&B use (frame)
- (22) Red color coating on metal for sample B use (frame)
- (23) White color coating on metal for sample B use (frame)

(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: Jan 14, 2019

Testing period: Jan 14, 2019 To Mar 05, 2019

To be continued

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.



Test Report

NUMBER : TSNH00295961

Photo



End of report