



NUMBER : TSNH00174089

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

Date : Dec 10, 2015

Sample Description:

Three (3) submitted sample said to be

**(A) White Bicycle.**

**(B) Blue Bicycle.**

**(C) Purple Bicycle.**

Item Name : Children Bicycle.  
Item No. : RB16-15.  
Country of Origin : China.  
Goods Exported To : EU.



Speed :Single-speed.  
Brake :Side pull caliper brake in front& Hub-brake in rear.  
Fork :--  
Frame :--  
Wheel :16" wheels.  
Others :With training wheels & warning device.

Sample A

Tests Conducted:

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

To be continued

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

David Zhang  
Manager



**Intertek Testing Services(Tianjin) Ltd.**

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Speed	:Single-speed.
Brake	:Side pull caliper brake in front& Hub-brake in rear.
Fork	:--.
Frame	:--.
Wheel	:16" wheels.
Others	:With training wheels & warning device.

Sample B



Speed	:Single-speed.
Brake	:Side pull caliper brake in front& Hub-brake in rear.
Fork	:--.
Frame	:--.
Wheel	:16" wheels.
Others	:With training wheels & warning device.

Sample C

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Tests Conducted:

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

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To be continued

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Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted bicycles	ISO 8098:2014 Cycles - Safety requirements for bicycles for young children	Pass #1, #2, #3 & #4

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Remark:

- #1 = The approval of compliance with ISO 5775 part 1 & part 2 is manufacturer's responsibility.
- #2 = Bicycles shall be equipped with lighting systems and reflectors in conformity with the national regulations in the country in which the bicycle is marketed, if the bicycle is intended for the use on public road space.
- #3 = The requirement as per clause 4.20.4 reflectors, the retro-reflective devices shall comply with the requirement of ISO 6742-2 was not evaluated in this report. However, the applicant has submitted test data and "declaration of conformity" substantiating compliance of reflectors with ISO 6742-2.
- #4 = Compliance with warning device's provisions in force in the country in which the product is marketed is manufacturer's responsibility.

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To be continued

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Safety Requirements for Bicycles for young children

As per ISO 8098:2014 Cycles - Safety requirements for bicycles for young children.

Executive summary:

Clause	Test item	Result
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Requirements and test methods	
4.1	Brake tests and strength tests - Special requirements	
4.2	Toxicity	P (See test data #1)
4.3	Sharp edges	P
4.4	Security and strength and safety - related fasteners	
4.4.1	Security of screws	P
4.4.2	Minimum failure torque	P
4.4.3	Quick-release devices	P
4.4.4	Foot location devices	P
4.4.5	Folding bicycle mechanism	NA
4.5	Crack detection methods	
4.6	Protrusions	P
4.7	Brakes	
4.7.1	Braking-systems	P
4.7.2	Hand-operated brakes	
4.7.2.1	Brake-lever position	P
4.7.2.2	Brake-lever grip dimensions	P
4.7.2.3	Handbrake levers - Position of applied force	
4.7.3	Attachment of brake assembly and cable requirements	P
4.7.4	Brake-block and brake-pad assemblies - Security test	P
4.7.5	Brake adjustment	P
4.7.6	Back-pedal brake	NA
4.7.7	Braking-system - Strength tests	
4.7.7.1	Hand-operated brake - Requirement	P
4.7.7.2	Hand-operated brake - Test method	
4.7.7.3	Back-pedal brake - Requirement	NA
4.7.7.4	Back-pedal brake - Test method	
4.7.8	Braking performance	
4.7.8.1	Hand-operated brake performance test - Requirement	P
4.7.8.2	Hand-operated brake performance test – Test method	
4.7.8.3	Back-pedal brake performance test – Requirement	P
4.7.8.4	Back-pedal brake performance test- Test method	

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Clause	Test item	Result
4.8	Steering	
4.8.1	Handlebar-dimensions and end fittings	P
4.8.2	Handlebar grips	P
4.8.3	Handlebar-stem - Insertion depth mark or positive stop	P
4.8.4	Steering stability	P
4.8.5	Steering assembly - Static strength and security tests	
4.8.5.1	Handlebar and stem assembly - Lateral bending test	P
4.8.5.2	Handlebar and stem assembly - Forward bending test	P
4.8.5.3	Handlebar to handlebar stem - Torsional security test	P
4.8.5.4	Handlebar stem to fork stem - Torsional security test	P
4.8.6	Handlebar and stem assembly - Fatigue test	P
4.9	Frames	
4.9.1	Frame and front fork assembly - impact test (falling mass)	P
4.9.2	Frame and front fork assembly - impact test (falling frame)	P
4.10	Front fork	
4.10.1	General	P
4.10.2	Front fork - Bending fatigue test	P
4.11	Wheels	P
4.11.1	Rotational accuracy	
4.11.2	Wheel/tyre assembly - Clearance	P
4.11.3	Wheel/tyre assembly - Static strength test	P
4.11.4	Wheel retention	P
4.12	Rims, tyre and tubes	
4.12.1	Tyre inflation pressure	P
4.12.2	Tyre and rim compatibility: comply with ISO 5775-1 & ISO 5775-2	#1
	Tyre and rim compatibility: 110% inflation for the tyre	P
4.13	Pedals and pedal/crank drive system	NA
4.13.1	Pedal tread	P
4.13.2	Pedal clearance	P
4.13.3	Pedal - Impact test	P
4.13.4	Pedal/pedal-spindle - Dynamic durability test	P
4.13.5	Drive system static strength test	P
4.13.6	Crank assembly - Fatigue tests	P
4.14	Saddles and seat-posts	
4.14.1	Limiting dimensions	P
4.14.2	Seat-post - Insertion-depth mark or positive stop	P
4.14.3	Saddle and seat post security test	P
4.14.4	Saddle - Static strength test	P
4.14.5	Saddle and seat-post assembly fatigue test	P
4.15	Chain-guard	P

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To be continued

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Clause	Test item	Result
4.16	Stabilizers	
4.16.1	Mounting and dismounting	P
4.16.2	Dimensions	P
4.16.3	Vertical load test	P
4.16.4	Longitudinal load test	P
4.17	Luggage carriers	NA
4.18	Lighting systems and reflectors	#2
4.18.1	Front and rear light	NA
4.18.2	Reflectors	#3
4.18.3	Wiring harness	NA
4.19	Warning device	#4
5	Instructions	P
6	Marking	P

Abbreviation: P = Pass

NA = Not Applicable

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To be continued



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Test Data

#1. 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, liquid 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)	(6)	
Aluminium (Al)	<300	344	<300	542	15260	<300	70000
Antimony (Sb)	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	19	<10	168	<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	36	<10	460
Chromium (VI) (Cr VI)	<0.2#	<0.2#	<0.2#	<0.2#	<0.2#	<0.2	0.2
Cobalt (Co)	<10	<10	<10	<10	<10	<10	130
Copper (Cu)	21	<10	<10	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	<10	<10	160
Manganese (Mn)	28	10	<10	<10	<10	<10	15000
Mercury (Hg)	<10	<10	<10	<10	<10	<10	94
Nickel (Ni)	12	<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)	51	<10	<10	<10	<10	<10	180000
Organic tin	<3Δ	10Δ	<3	<3	<3	<3	12
Zinc (Zn)	948	<100	<100	<100	<100	<100	46000

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Element	Result (mg/kg)						Limit (mg/kg)
	(7)	(8)	(9)	(10)	(11)	(12)	
Aluminium (Al)	345	26570	368	<300	<300	<300	70000
Antimony (Sb)	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	152	<10	<10	<10	46	<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)	<0.2#	<0.2#	<0.2#	<0.2	<0.2	<0.2#	0.2
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	160
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	108	<100	<100	<100	56000
Tin (Sn)	<10	<10	<10	<10	<10	<10	180000
Organic tin	<3	<3	8Δ	<3	<3	<3	12
Zinc (Zn)	<100	<100	250	<100	<100	<100	46000

Remark : mg/kg = milligram per kilogram

- Organic tin test result was expressed as tributyl tin.

- Unless specified, determination of Chromium (III), Chromium (VI) and Organic tin was based on elemental analysis.

The above reference limit was quoted according to Annex II Part III Items 13 of the European Council Directive 2009/48/EC, amendment 2012/7/EU and amendment 681/2013/EU for 19 toxic elements in toys.

# = Confirmation of Chromium (VI) test was performed on the tested component.

Δ = Confirmation test was performed on the tested component. The reported value was calculated by summation of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, Monoctyl tin, Dioctyl tin, Dipropyl tin, Diphenyl tin and Triphenyl tin.

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To be continued





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Tested Component(s):

- (1) Black coating on metal for all samples use(handlebar&stem,brake level,crank set,brace of trainingwheel,hub,spoke,seat post)
- (2) Transparent with white base coating on metal for sample A&C use(frame,front fork)
- (3) Matt blue coating on metal for sample B use(frame)
- (4) Matt purple coating on metal for sample C use(frame)
- (5) Silvery coating on metal for sample A use(front fork)
- (6) Black plastic for all samples use(grip)
- (7) Blue coating on metal for sample A&B use(rim of wheel)
- (8) Silvery coating on metal for sample B use(front fork/frame)
- (9) Purple coating on metal for sample C use(rim of wheel)
- (10) Transparent plastic with black printed for sample A use(saddle cover)
- (11) Silvery with black printed for sample B use(saddle cover)
- (12) Transparent plastic with purple printed for sample C use(saddle cover)

(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 : Oct 16, 2015

Testing period : Oct 16, 2015 to Dec 09, 2015

End of report

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