

## Test Report

NUMBER : TSNH00453092

Applicant : Pingxiang County Hongduo Sports Goods Factory  
He Gu Miao Zhen Dong Gu Cun, Pingxiang County, Xingtai  
City, Hebei Province  
Attn : Zhao Fengxian

Date : May 25,2023

Photo



### Sample Description:

One (1) submitted sample said to be  
Item Name : Multifunctional balanced bike  
Style No. : PH-09  
Age grading : 2-7Y

### Tests Conducted:

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

### Conclusion:

<u>Tested</u>	<u>Standard</u>	<u>Result</u>
<u>Samples/components</u> Submitted Sample	EN 71-1: 2014+ A1: 2018 for Mechanical And Physical Properties	Pass
Submitted sample	EN 71-2: 2020 Flammability test	Pass
(1),(2),(3),(4),(6),(7),(8), (9),(10),(11),(12),(13), (14),(15),(16),(17)&(18)	EN 71-3:2019+A1:2021 on migration of certain elements	Pass

To be continued

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

David Zhang  
Senior Manager



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### 1. Mechanical and Physical Test

As Per European Standard on Safety of Toys EN 71-1: 2014+ A1: 2018.

Applicant's specified age group for testing: Over 2-5 years

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	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	P
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA



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Clause	Testing Items	Assessment
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
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, inline skates and skateboards and certain other ride-on toys	P #
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36	NA



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Clause	Testing Items	Assessment
	months	
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

Abbreviation: P = Pass NA = Not Applicable

# = Only artwork of labeling, packing and instructions was provided for review.

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:

### 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.

After checking, it was found that:

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Absent

## 2. Flammability Test

As per European Standard on Safety of Toys EN 71-2: 2020

Clause	Testing items	Assessment
4.1	General	P
4.2	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

Abbreviation : P = Pass

NA = Not applicable

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### 3. 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)										Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component											
	(1)	(2)	(3)	(4)	(6)	(7)	(8)	(9)	(10)	(11)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	505	ND	ND	394	ND	ND	ND	ND	50	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	78	ND	ND	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND#	ND#	ND#	ND#	ND#	ND#	ND#	ND#	ND#	ND#	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	28	ND	ND	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	4.8	ND	ND	40.8	ND	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND $\Delta$	ND	ND	ND $\Delta$	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	139	ND	ND	ND	108	ND	107	100	46000

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Element	Result (mg/kg)							Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component								
	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
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)	355	ND	ND	ND	ND	515	1023	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	36	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	13	ND	ND	ND	ND	11	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	236	16	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)	3.6	ND	ND	ND	ND	19.9	2.7	2.5	180000
Organic tin **	NDΔ	ND	ND	ND	ND	NDΔ	NDΔ	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	147	100	46000

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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. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

- Organic tin test result was expressed as tributyl tin.  
ND = Not detected (less than detection limit)  
# = Confirmation of Chromium (VI) test was performed on the tested component.

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, Tetrabutyl 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 component(s): 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).

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### Test components

- (1) Black soft plastic on handlebar
- (2) Black coating on handlebar[sample weight: 69.7mg]
- (3) Black plastic on brake
- (4) Black soft plastic on brake wire skin
- @(5)Black coating under handlebar[sample weight: 8.1mg]
- (6)Green coating on frame
- (7)Brown plastic on mudguard
- (8)Black soft plastic on wheel(edge)
- (9)Black soft plastic with multicolor printing on wheel(edge)
- (10)Black plastic wheelbone
- (11)Black soft plastic on valve core
- (12)White coating on front fork[sample weight: 55.9mg]
- (13)Black leather on seat
- (14)Black plastic under seat
- (15)White plastic under seat
- (16)Black plastic on foot pedal
- (17)Black coating under seat[sample weight: 29.0mg]
- (18)Black coating on support stand[sample weight: 35.9mg]

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

The value in '[ ]' is the mass of the test portion, which between 10mg and 100mg, the quantity of the appropriate elements was calculated as if 100 mg test portion has been used for the test of EN71-3:2019+A1:2021.

Date Sample Received : Apr 27,2023

Testing Period : Apr 27,2023 to May 24,2023

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To be continued

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Reference Image (The following image, which were not tested in this report, were provided by the client for reference only.



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End of report

