



NUMBER : TSNH00203342

Applicant : Wonderland Sport Limited
No.4 Jiuxianqiao Road,Chaoyang District,Beijing,China
Attn :David Tan

Date : Sep 01, 2016

Sample Description:

One (1) submitted sample said to be
Item Name :Hanging Swing
Item No. :45418
Age Grading For Testing :3+
Country of Destination :Europe
Country of Origin :China

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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Conclusion:

<u>Tested Samples/components</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	EN71-1:2014 for mechanical and physical properties	Pass
Submitted sample	EN71 Part 2 : 2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample(s)	EN71-3:2013+A1:2014 for migration of certain elements	Pass
Submitted Sample	EN71-8: 2011 Safety Of Toys - Activity Toys For Domestic Use	Pass
(4)	Phthalates Content Requirement In Annex Xvii Items 51 & 52 Of The Reach Regulation (Ec) No. 1907/2006 (Formerly Known As Directive 2005/84/Ec)	Pass
(4)	Cadmium content requirement in Annex XVII Item 23 of the REACH Regulation (EC) No. 1907/2006, amendment No. 552/2009 (formerly known as Directive 91/338/EEC) and Commission Regulation (EU) No. 494/2011 and No. 835/2012	Pass
(4)	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
(1),(2)&(3)	Azocolourants content requirement in ANNEX XVII item 43 of the REACH regulation (EC) No. 1907/2006 , amendment No. 552/2009 and 126/2013 (formerly known as directive 2002/61/EC)	Pass



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1.Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1:2014.

Applicant's specified age group for testing: For ages three years and up.

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
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	NA
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	NA
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
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
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

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Clause	Testing items	Assessment
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
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	Projectiles	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	NA
7.11	Toys intended to be attached to or 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

Remark : P = Pass NA = Not Applicable

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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:

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

2. Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	P
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not applicable

The test specimen was pre-washed according to the EN71-2 Clause 5.4.1 before testing.

To Be Continued



3. 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)	
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)	<0.2	<0.2	<0.2	<0.2	0.2
Cobalt (Co)	<10	<10	<10	<10	130
Copper (Cu)	<10	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	160
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	<3	<3	<3	12
Zinc (Zn)	<100	<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.

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

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(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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4.Safety Requirement For Activity Toy

Test Standard: EN71-8: 2011 Safety Of Toys - Part 8: Activity Toys For Domestic Use.

Applicant's Specified

- Age Group For Testing: For ages 3 years and up
- Maximum Weight Of Single User: 100kg

Number Of Samples Tested: One (1) Set.

Clause	Requirement	Result
4.1	General	
4.1.1	Assembly	NA
4.1.2	Static Strength	NA
4.1.3	Maximum Height	P#1
4.1.4	Corners And Edges	P
4.1.5	Protruding Parts	NA
4.1.6	Diameter Of Ropes And Other Means Of Suspension	NA
4.2	Barriers, Handrails And Ladders And Similar Means Of Access To Activity Toys	
4.2.1	Barriers And Handrails Preventing A Child From Falling Down	NA
4.2.2	Ladders And Similar Means Of Access To Activity Toys	NA
4.3	Entrapment	
4.3.1	Head And Neck Entrapment	P
4.3.2	Entrapment Of Clothing And Hair	NA
4.3.3	Entrapment Of Feet	P
4.3.4	Entrapment Of Fingers	P
4.4	Stability Of Activity Toys Other Than Slides, Swings And Activity Toys With Crossbeams, And See-Saws	
4.4.1	General	NA
4.4.2	Stability Of Activity Toys With A Free Height Of Fall Of 600 mm Or Less	NA
4.4.3	Stability Of Activity Toys With A Free Height Of Fall Of More Than 600 mm	NA
4.5	Slides	
4.5.1	Stability Of Slides	NA
4.5.2	Retaining Sides Of Slides	NA
4.5.3	Starting, Sliding And Run-Out Section On Slides	NA
4.6	Swings	
4.6.1	Stability Of Swings And Other Activity Toys With Crossbeams	NA
4.6.2	Static Strength Of Crossbeams, Swing Devices And Suspension Connectors	P
4.6.3	Swings Intended For Children Under 36 Months	NA
4.6.4	Minimum Clearance Between Adjacent Swing Elements, And Adjacent Structures	P#2
4.6.5	Lateral Stability Of Swing Elements	NA
4.6.6	Minimum Clearance Between Swing Elements And The Ground	P#3
4.6.7	Suspension Connectors And Swing Devices	P
4.6.8	Impact, Geometry And Design Of Swing Elements	P

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4.7	See-saws	NA
4.7.1	Stability Of See-saws	NA
4.7.2	Seat/Stand Height	NA
4.7.3	Restraint Of Motion	NA
4.7.4	Pinching And Crushing Fingers And Toes	NA
4.7.5	Hand Supports	NA
4.8	Carousels And Rocking Activity Toys	NA
4.9	Paddling Pools	
4.9.1	Static Strength Of Paddling Pools With Non-Inflatable Walls	NA
4.9.2	Paddling Pools With Inflatable Walls	NA
5	Warnings, Markings, And Instructions	
5.1.1	General	P
5.1.2	Paddling Pools	NA
5.2	Assembly And Installation Instruction	P
5.3	Maintenance	P

Abbreviation: P = Pass; NA = Not Applicable

Remark:

#1 - The instruction manual stated that the maximum height of the swing should be less than 2500mm, hence is deemed to satisfy the requirement in clause 4.1.3.

#2 - The instruction manual stated that the spacing between the swing and objects around should be not less than 450mm, hence is deemed to satisfy the requirement in clause 4.6.4.

#3 - The instruction manual stated that the swing should be installed with a minimum ground clearance of 350mm, hence is deemed to satisfy the requirement in clause 4.6.6.

5. As requested by the applicant, the submitted sample was tested as the following test; the test results were listed as below:

Test Property	Test Method	Test Principle / Requirements	Test Result	Rating
Static loading test	In house method	The sample should load 100kg for 24 hours without any structure failure	Meet	P

Abbreviation: P = Pass

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6. Phthalate Content Test on tested component(4)

With reference to EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>Result (% , w/w)</u>
Dibutyl phthalate (DBP)	ND
Diethyl hexyl phthalate (DEHP)	ND
Benzyl butyl phthalate (BBP)	ND
Sum of three phthalates	ND
Limit (max.)	0.1% (w/w)

	<u>Result (% , w/w)</u>
Di-iso-nonyl phthalate (DINP)	ND
Di-n-octyl phthalate (DNOP)	ND
Di-iso-decyl phthalate (DIDP)	ND
Sum of three phthalates	ND
Limit (max.)	0.1% (w/w)

Remark: The above limit was quoted according to ANNEX XVII Items 51 & 52 of the REACH Regulation (EC) NO. 1907/2006 (formerly known as Directive 2005/84/EC) for phthalate content in toys and children articles.

detection limit = 0.01% (w/w)
ND=Not Detected

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

7. Cadmium (Cd) Content

As per Cadmium content requirement in Annex XVII Item 23 of The REACH Regulation (EC) No. 1907/2006, amendment No. 552/2009 (formerly known as Directive 91/338/EEC) and Commission Regulation (EU) No. 494/2011 and no. 835/2012, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (%)</u>	<u>Limit (%)</u>
(4)	<0.0005	0.01

% = percentage based on dry weight of sample
< = Less than

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

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8.Polycyclic Aromatic Hydrocarbons (PAHs) Content on tested component(4)

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) (Max.)</u>
Benzo(a)pyrene	ND	0.5
Benzo(e)pyrene	ND	0.5
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(j)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.5
Dibenzo(a,h)anthracene	ND	0.5

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

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<u>Compound</u>	<u>Result (mg/kg)</u>
Naphthalene	ND
Acenaphthylene	ND
Acenaphthene	ND
Fluorene	ND
Phenanthrene	ND
Anthracene	ND
Fluoranthene	ND
Pyrene	ND
Indeno(c,d)pyrene	ND
Benzo(g,h,i)perylene	ND

Remark : The tested result of above ten compounds were just for self-reference only.

ND = Not Detected
Detection limit = 0.2 mg/kg

To Be Continued



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9. Detection Of Amines Derived From Azocolourants And Azodyes on tested components

By Gas Chromatographic - Mass Spectrometric (GC-MS) and High Performance Liquid Chromatographic (HPLC) analysis.

Test Method : EN 14362-1 : 2012 for textile material

	<u>Forbidden</u>	<u>CAS No.</u>	<u>Result (ppm)</u>		
1.	4-Aminodiphenyl	92-67-1	(1)	(2)	(3)
2.	Benzidine	92-87-5	N	N	N
3.	4-Chloro-o-toluidine	95-69-2	N	N	N
4.	2-Naphthylamine	91-59-8	N	N	N
5.	O-Aminoazotoluene	97-56-3	N	N	N
6.	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7.	P-chloroaniline	106-47-8	N	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14.	P-cresidine	120-71-8	N	N	N
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N	N
18.	O-Toluidine	95-53-4	N	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N	N
21.	O-anisidine	90-04-0	N	N	N
22.	P-aminoazobenzene	60-09-3	N	N	N

Remark : N = Not Detected
 Detection Limit = 5 ppm
 Requirement = 30 ppm (MAX.)
 ppm = Parts Per Million = mg/kg

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

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Component List

- (1) Orange fabric
- (2) Black fabric(zipper)
- (3) Green fabric
- (4) Black plastic(zipper)

Date Sample Received: Aug 24,2016

Testing Period: Aug 24,2016 To Sep 01,2016

To Be Continued

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