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Test Report Number: SHAH01373950

Applicant: WONDERLAND SPORT LIMITED
NO.4 JIUXIANQIAO ROAD, CHAOYANG DISTRICT,100015,BEIJING,CHINA
Attn: DAVID TAN/JACKY ZHANG

Date: 16 Sep, 2021

Sample Description:
One(1) group of submitted sample said to be :

Item Name	:	100cm Nest Swing
Item No.	:	40150
Quantity	:	1
Labelled Age Group	:	3+
Packaging Provided By Applicant	:	No
Goods Exported To	:	EUR
Country Of Origin	:	China

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

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Conclusion:

Tested Samples	Standard	Result
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties 7. Warnings, markings and instructions for use	Pass
Submitted Sample	EN71-2: 2011+A1: 2014 Flammability Test	Pass
(1),(2),(3)	EN 71-3: 2019 on migration of certain elements & EU 2019/1922 amending 2009/48/EC (effective from May, 20,2021) for Aluminium (Al) migration	Pass
(1),(2),(3)	EN 71-3:2019+A1:2021 on migration of certain elements	Pass
(1+2),(3)	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass
(1+2), (3)	Phthalates content requirement in Annex XVII Item 51&52 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
(1+2),(3),(4)	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII item 63 of the REACH Regulation (EC) No. 1907/2006	Pass
Submitted Sample	EN71-8: 2018 Safety Of Toys - Activity Toys For Domestic Use	Pass

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To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang

Peter Chen
General Manager

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Tests Conducted

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: For ages 3 years and up

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	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	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
4.27	Flying toys	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
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#

Remark: P = Pass NA = Not Applicable

= As the applicant's request, 7. Warnings, markings and instructions for use was not assessed.

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 03, 2021

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

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 03, 2021

3. 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2019 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.

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Tests Conducted

Category (III): Scraped-off toy material

Element	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Aluminium (Al)	< 300	< 300	< 300	28130
Antimony (Sb)	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025#	< 0.025#	< 0.025#	0.053
Cobalt (Co)	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	376	46000

Remark:
++ = 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.

= 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).

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).

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 08, 2021

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Tests Conducted

4. 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)
	(1)	(2)	(3)		
Aluminium (Al)	<300	<300	<300	300	28130
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)	<0.025#	<0.025#	<0.025#	0.025	0.053
Cobalt (Co)	<10	<10	<10	10	130
Copper (Cu)	<10	<10	<10	10	7700
Lead (Pb)	<10	<10	<10	10	23
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)	<2.5	<2.5	<2.5	2.5	180000
Organic tin ++	<5	<5	<5	5	12
Zinc (Zn)	<100	<100	376	100	46000

Remark :

++ = 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.
# = 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).

Tested component(s)：See component list in the last section of this report / See W/S

(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).

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Tests Conducted

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: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 08, 2021

5. Cadmium (Cd) content

With reference to methods IEC 62321:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested components	Result in %
(1+2)	<0.0005
(3)	<0.0005

Requirement：	
Category	Limit (%)
Paints with codes [3208] and [3209]	0.01
Paints with codes [3208] [3209] with a zinc content exceeding 10 % by weight of the paint	0.1
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

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

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 08, 2021

6. Phthalate Content

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

I. Annex XVII Item 51

Tested Compound	CAS No.	Result (%,w/w)		Limit (%,w/w)
		(1+2)	(3)	(Max.)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	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.

For toys and childcare articles, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

For non-toys and non-childcare articles, DBP, DEHP, BBP, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

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Tests Conducted
II. Annex XVII Item 52

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

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

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

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 08, 2021

7. Lead (Pb) Content

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Components	Result (%)	Limit (%)
(1+2)	<0.002	0.05
(3)	<0.002	0.05
(4)	<0.002	0.05

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

Date Sample Received: Aug 11, 2021
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8. Safety Requirement For Activity Toy

Test Standard：EN71-8: 2018 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： 150 kg
- Maximum Total Weight：150 kg

Number Of Samples Tested: One (1) Set.

Clause	Requirement	Result
4.1	General	
4.1.1	Assembly	P
4.1.2	Static Strength	NA
4.1.3	Maximum Height	NC
4.1.4	Corners And Edges	P
4.1.5	Protruding Parts	P

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4.1.6	Diameter Of Ropes And Other Means Of Suspension	P
4.1.7	Water Accumulation	P
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	Entrapment Of Head And Neck	P
4.3.2	Entrapment Of Clothing And Hair	NA
4.3.3	Entrapment Of Feet	NA
4.3.4	Entrapment Of Fingers	P
4.4	Stability Of Activity Toys Other Than Slides, Swings And Activity Toys With Rossbeams, 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	General	NA
4.5.2	Stability Of Slides	NA
4.5.3	Retaining Sides Of Slides	NA
4.5.4	Starting, Sliding And Run-Out Sections On Slides	NA
4.6	Swings	
4.6.1	Stability Of Swings And Other Activity Toys With Crossbeams	NC
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
4.6.5	Lateral Stability Of Swing Elements	NC
4.6.6	Minimum Clearance Between Swing Elements And The Ground	P
4.6.7	Suspension Connectors And Swing Devices	P
4.6.8	Impact, Geometry And Design Of Swing Elements	P
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	NC
5.1.2	Paddling Pools	NA
5.2	Assembly And Installation Instruction	P
5.3	Maintenance	P

Abbreviation：P = Pass；NA = Not Applicable; NC = Not conduct

Date Sample Received: Aug 11, 2021
Testing Period: Aug 11, 2021 to Sep 03, 2021

Components List：

Tested components:

(1) Black plastic (on string)

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(2) Black plastic string

(3) Black sponge

(4) Silver metal (Nut/ gasket/ screw)

Remark: Test item is tested in Intertek CNAS L3439.

Submitted sample

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End of report

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