



NUMBER : TSNH00225345-S1

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

Date : May 02,2017
This is to superseded
report TSNH00225345
dated Apr 28,2017

Sample Description:

One (1) submitted sample said to be
Item Name :Net Swing
Item No. :45404
Material :steel&PE rope
Age grading for testing :3+
Weight Capacity :400lbs
Country of Destination :USA
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
Senior Manager



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Conclusion: Tested samples Submitted sample	Standard	Result
	Performance test for Net Swing - As per the client's request, with reference to ASTM F1148-12 - Standard consumer safety performance specification for home playground equipment (Excluding - clause 4: materials and manufacture; - clause 8.1.3: minimum ground clearance - clause 8.1.9: spacing between adjacent swing elements - clause 8.1.10: spacing between swing elements and stationary frame members)	Pass
(1),(2),(4)&(5)	Client's requirement with reference to U.S. ASTM F963-11 for soluble elements test for non-surface coating materials	Pass
(1),(2),(3),(4)&(5)	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
(1),(2),(4)&(5)	Phthalates content requirement in US Consumer Product Safety Improvement Act 2008 & Amendment H.R.2715	Pass

To be continued

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1. Performance test for Net Swing

As per the client's request, with reference to ASTM F1148-12 - Standard consumer safety performance specification for home playground equipment, the submitted sample was subjected to the following test.

Number of Sample Tested: 1 Piece

Initial inspection: No any damage was found

Executive Summary:

Clause	Test items	Verdict
1	Scope.	-
2	Referenced Documents.	-
3	Terminology	-
4	Materials and Manufacture	-
4.1.1	Metal, wood and plastic	#1
4.1.2	Material and treatment process	#2
4.1.3	Lead in Paint	NR
5	General Requirements	-
5.1	Applicable to All Home Playground Equipment	-
5.2	Small part	NA
5.3	Permanent label	P#3
6	Performance Requirements	-
6.1	Head and Neck Entrapment	P
6.2	Acute Angles	NA
6.3	Protrusions	P
6.4	Edges, Points, and Surfaces	P
6.5	Open Tubing	NA
6.6	Pinch, Crush, and Shear Points	P
6.7	Holes and Slots	P
6.8	Hardware	P
6.9	Hooks	P
6.10	Hand Gripping/Grasping Components	P
7	Requirements for Access	-
7.1	Rung Ladders, Stepladders and Stairways	NA
7.2	Handrails	NA
7.3	Guardrails and Protective Barriers	NA
8	Equipment	-
8.1	Swings	-
8.1.1	To-fro swinging components	P
8.1.2	Hangers	P
8.1.3	Minimum Ground Clearance	#4
8.1.4	Single-Occupancy Swings	P
8.1.5	Multiple-Occupancy Swings	NA
8.1.6	Pendulum See-Saws	NA
8.1.7	Toddler Swings	NA
8.1.8	Swing Set Stability	NA
8.1.9	Spacing Between Adjacent Swing Elements	#4
8.1.10	Spacing Between Swing Elements and Stationary Frame Members	#4

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Clause	Test items	Verdict
8.2	Slides	NA
8.2.1	Slide Requirements	NA
8.2.2	Stability of Free-Standing Slides	NA
8.2.3	Roller Slides	NA
8.3	Merry-Go-Rounds	NA
8.4	Ropes	NA
9	Equipment Layout	-
9.1	Play Structure Use Zone	-
10	Installation	-
10.1	Installation instructions and information	P
11	Structural Integrity	-
11.1	General requirements	-
11.1.1	Handholds, Footholds, and Horizontal Supporting Members	NA
11.1.2	Top Support Bar	NA
11.1.3	Individual Suspended Units	P
11.1.4	Slides	NA
11.1.5	Rockers	NA
11.1.6	Merry-Go-Rounds	NA
11.1.7	Climbing Towers/Jungle Gyms	NA
11.1.8	Platforms	NA
11.1.9	Climbing Components	NA
12	Maintenance Instructions	-
12.1	maintenance instructions	P
12.2	Disposal Instructions	P
13	Labeling	P#3 & #5
14	Information Signage and Labels	-
14.1	Information on Manufacturer or Distributor	P
14.2	Information on Playground Surfacing Materials	P
14.3	Operating Instructions	P
14.4	Warning statements for lawn swings	NA
15	Keywords	-

Abbreviation: **P=Pass**; **NA=Not Applicable**;

To be continued



Notes:

- #1 - Metals subject to structural degradation such as by rust or corrosion shall be painted, galvanized, or otherwise treated. Woods shall be naturally rot- and insect-resistant or treated to avoid such deterioration. Creosote, pentachlorophenol, tributyltin oxide, and surface coatings that contain pesticides shall not be used for playground equipment. Wood treaters and playground equipment manufacturers shall practice technologies and procedures that minimize the level of dislodgeable toxin. Plastics and other materials that experience ultraviolet (UV) degradation shall be stabilized against ultraviolet light.
- #2 - The manufacturer shall ensure that the users of the playground equipment cannot ingest, inhale, or absorb any potential hazardous amounts of substances through body surfaces as a result of contact with the equipment.
- #3 - Only artwork of the labelling was provided for assessment, the permanence of the labelling was not assessed in this report.
- #4 - The distance between the product and the ground or other element all depends on how to use the product by the user.
- #5- The manufacturer's recommended age was 5+. However the standard ASTM F1148-12 testing age range only covers 18 months to 10 years old. So the product only evaluated from 5 to 10 years old.

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2.Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-11, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (ppm)				Limit
	(1)	(2)	(4)	(5)	(ppm)
Sol. Barium (Ba)	<5	<5	6	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	25

Remark: Sol. = soluble
ppm = parts per million = mg/kg

As per the client's request,the result of submitted components (1) to (2) were quoted respectively from the components (1) to (2) of the report TSNH00225339-S1 issued on May 02, 2017

As per the client's request,the result of submitted components (4) was quoted respectively from the components (4)of the report TSNH00225342-S1 issued on May 02, 2017

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

To be continued



3. Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.1 and CPSC-CH-E1001-08.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1)	11	100
(2)	<10	100
(3)	<10	100
(4)	<10	100
(5)	<10	100

Remark: ppm = Parts per million = mg/kg
< = Less Than

As per the client's request, the result of submitted components (1) to (3) were quoted respectively from the components (1) to (3) of the report TSNH00225339-S1 issued on May 02, 2017

As per the client's request, the result of submitted components (4) was quoted respectively from the components (4) of the report TSNH00225342-S1 issued on May 02, 2017

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

To be continued



4. Phthalate content test on tested components

With reference to CPSC-CH-C1001-09.3, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Tested compound</u>	<u>Result (%.w/w)</u>				<u>Limit(%w/w) (MAX.)</u>
	(1)	(2)	(4)	(5)	
Di-butyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	0.1
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	0.1

Remark: The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 & Amendment H.R.2715 for prohibition on sale of certain products Containing specified phthalates.

Detection Limit = 0.01%(w/w)
ND = Not Detected

As per the client's request,the result of submitted components (1) to (2) were quoted respectively from the components (1)to(2)of the report TSNH00225339-S1 issued on May 02, 2017

As per the client's request,the result of submitted components (4) was quoted respectively from the components (4)of the report TSNH00225342-S1 issued on May 02, 2017

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

To be continued



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Component list:

- (1) black plastic rope
- (2) black plastic
- (3) metal ring
- (4) balck plastic foam
- (5) orange plastic rope

Date Sample Received : Mar 31,2017

Testing Period : Mar 31,2017 to Apr 28,2017

To be continued

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Photo



End of report

RE : Report Revision Notification

Report Number TSNH00225345 Dated Apr 28, 2017

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised report, number TSNH00225345-S1, issued on May 02, 2017

Please return the original captioned report to us immediately.

Thank you for your attention