

**Test Report** No.: SHHL1708044714OT Date: AUG 29, 2017 Page 1 of 9

NINGBO SWAN SPORTS APPLIANCE MANUFACTURING CO.,LTD NO.51 LANE 776, YUFAN EAST ROAD, ZHENHAI,NINGBO, ZHEJIANG, CHINA

THE TEST RESULTS ARE COPIED FROM TEST REPORT NO.: SHHL1708044715OT, DATE: AUG 29, 2017

The following samples were submitted and identified by/on behalf of the client as: QUAD SKATES

Sample Quantity : 2 SETS
Style / Item No. : TE-QR006

Supplier : NINGBO SWAN SPORTS APPLIANCE

MANUFACTURING CO.,LTD

Manufacturer : NINGBO SWAN SPORTS APPLIANCE

MANUFACTURING CO.,LTD

Labeled Age Grading : NOT STATED
Requested Age Grading : 3+ YEARS
Age Group Applied in Testing : 3+ YEARS
Sample Receiving Date : AUG 02, 2017
Resubmitted Sample Date : AUG 23, 2017

Testing Period : AUG 02, 2017 TO AUG 29, 2017

Test Requested Result

AUG 23, 2017

This is not a toy, the test(s) was applied as per client request. There may be additional hazards and labeling requirements that are not covered by this standard:

EN 71-1: 2014 – Safety of toys – Part 1: Mechanical and Physical Properties(excluding <u>Pass</u> labeling requirements)

EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability Pass

EN71-3:2013 + A1:2014 under European Directive 2009/48/EC – Migration of certain Pass

elements

**Further Information Date** 

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*\*\*\*\*\*\*\*

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Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Wallace Lui

Senior Technical Manager, Asia



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Results:

## EN 71-1:2014 - SAFETY OF TOYS - PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2014 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.15	Toys intended to bear the mass of a child(Excluding labeling requirements)	
	4.15.1 Toys propelled by the child or by other means	<u>Pass</u>

### EN 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play	Not Applicable
	Remark: The green and pink fabric on the shoes was not tested since the	(See Remark)
	sample as it appears in the toy cannot constitute a test sample of 610mm x	
	100mm or 2 equal test samples of 310mm x 100mm.	

# EN71-3:2013+A1:2014 under European Directive 2009/48/EC-Migration of certain elements

Test Method: With reference to EN71-3:2013+A1:2014, analysis was performed by ICP-OES. Soluble Chromium (VI) was analyzed by IC-UV or LC-ICP-MS

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Lead (Pb)	160	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	49	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	102	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND



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Soluble Aluminum (AI)		70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn) Soluble Organic Tin*		180000 12	mg/kg -	4.9 -	ND ND	ND ND	ND ND
Soluble Chromium (VI) (Cr	VI)	0.2	mg/kg	0.18	ND	ND	ND
Conclusion	,	0	99	00	PASS	PASS	PASS
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Lead (Pb)		160	mg/kg	10		ND	ND
Soluble Antimony (Sb) Soluble Arsenic (As)		560 47	mg/kg	10 10		ND ND	43 ND
Soluble Barium (Ba)		18750	mg/kg mg/kg	50		ND	ND
Soluble Cadmium (Cd)		17	mg/kg	5		ND	ND
Soluble Chromium (III) (Cr	III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)		94	mg/kg	10		ND	ND
Soluble Selenium (Se)		460	mg/kg	10		ND	ND
Soluble Boron (B)		15000 130	mg/kg	50 10		ND ND	ND ND
Soluble Cobalt (Co) Soluble Manganese (Mn)		15000	mg/kg mg/kg	50		ND ND	ND
Soluble Strontium (Sr)		56000	mg/kg	50		ND	ND
Soluble Zinc (Zn)		46000	mg/kg	50		ND	ND
Soluble Copper (Cu)		7700	mg/kg	50		ND	ND
Soluble Aluminum (Al)		70000	mg/kg	50		ND	ND
Soluble Nickel (Ni)		930	mg/kg	10		ND	ND
Soluble Tin (Sn) Soluble Organic Tin*		180000 12	mg/kg	4.9 -		ND ND	ND ND
Soluble Chromium (VI) (Cr	VI)	0.2	mg/kg	0.18	-	ND	ND
Conclusion	••,	0.2	9/1.9	0.10	PASS	PASS	PASS
Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Lead (Pb)		160	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)		560 47	mg/kg	10	ND ND	ND ND	ND ND
Soluble Arsenic (As) Soluble Barium (Ba)		47 18750	mg/kg mg/kg	10 50	ND ND	ND ND	ND ND
Soluble Cadmium (Cd)		17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr	III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	,	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)		460	mg/kg	10	ND	ND	ND
Soluble Boron (B)		15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co) Soluble Manganese (Mn)		130 15000	mg/kg mg/kg	10 50	ND ND	ND ND	ND ND
Soluble Strontium (Sr)		56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)		46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)		7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (AI)		70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)		930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)		180000	mg/kg	4.9	ND	ND	ND



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Soluble Organic Tin* Soluble Chromium (VI) (Co Conclusion	· VI)	12 0.2	- mg/kg	- 0.18	ND ND <b>PASS</b>	ND ND <b>PASS</b>	ND ND <b>PASS</b>
Test Item(s) Soluble Lead (Pb) Soluble Antimony (Sb) Soluble Arsenic (As) Soluble Barium (Ba) Soluble Cadmium (Cd) Soluble Chromium (III) (Cr Soluble Mercury (Hg) Soluble Selenium (Se) Soluble Boron (B) Soluble Cobalt (Co) Soluble Manganese (Mn) Soluble Strontium (Sr) Soluble Zinc (Zn) Soluble Copper (Cu) Soluble Aluminum (Al) Soluble Nickel (Ni) Soluble Tin (Sn) Soluble Organic Tin* Soluble Chromium (VI) (Cr Conclusion		Limit 160 560 47 18750 17 460 94 460 15000 130 15000 56000 46000 7700 70000 930 180000 12 0.2	Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MDL 10 10 10 50 5 5 10 10 50 50 50 50 50 4.9 -	010 ND ND ND ND ND ND ND ND ND ND ND ND ND	011 ND ND ND ND ND ND ND ND ND ND ND ND ND	012
Test Item(s) Soluble Lead (Pb) Soluble Antimony (Sb) Soluble Arsenic (As) Soluble Barium (Ba) Soluble Cadmium (Cd) Soluble Chromium (III) (Cr Soluble Mercury (Hg) Soluble Selenium (Se) Soluble Boron (B) Soluble Cobalt (Co) Soluble Manganese (Mn) Soluble Strontium (Sr) Soluble Zinc (Zn) Soluble Aluminum (Al) Soluble Aluminum (Al) Soluble Tin (Sn) Soluble Organic Tin* Soluble Chromium (VI) (Cr Conclusion		Limit 160 560 47 18750 17 460 94 460 15000 130 15000 56000 46000 7700 70000 930 180000 12 0.2	Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MDL 10 10 10 50 5 5 10 10 50 50 50 50 4.9 - 0.18	013 ND ND ND ND ND ND ND ND ND ND ND ND ND	O14 ND	015 ND 55 ND ND ND ND ND ND ND ND ND ND ND ND ND
Test Item(s) Soluble Lead (Pb) Soluble Antimony (Sb)		<u>Limit</u> 160 560	<u>Unit</u> mg/kg mg/kg	MDL 10 10	<u>016</u>  	<u>017</u> ND ND	<u>018</u> ND 44



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Soluble Arsenic (As)         47         mg/kg         10          ND         ND           Soluble Barium (Ba)         18750         mg/kg         50          ND         ND           Soluble Cadmium (Cd)         17         mg/kg         5          ND         ND           Soluble Chromium (III) (Cr III)         460         mg/kg         5         -         ND         ND           Soluble Mercury (Hg)         94         mg/kg         10          ND         ND           Soluble Selenium (Se)         460         mg/kg         10          ND         ND           Soluble Boron (B)         15000         mg/kg         50          ND         ND           Soluble Cobalt (Co)         130         mg/kg         50          ND         ND           Soluble Manganese (Mn)         15000         mg/kg         50          ND         ND           Soluble Strontium (Sr)         56000         mg/kg         50          ND         ND           Soluble Copper (Cu)         7700         mg/kg         50          ND         ND
Soluble Cadmium (Cd)         17         mg/kg         5          ND         ND           Soluble Chromium (III) (Cr III)         460         mg/kg         5          ND         ND           Soluble Mercury (Hg)         94         mg/kg         10          ND         ND           Soluble Selenium (Se)         460         mg/kg         10          ND         ND           Soluble Boron (B)         15000         mg/kg         50          ND         ND           Soluble Cobalt (Co)         130         mg/kg         10          ND         ND           Soluble Manganese (Mn)         15000         mg/kg         50          ND         ND           Soluble Strontium (Sr)         56000         mg/kg         50          ND         ND           Soluble Zinc (Zn)         46000         mg/kg         50          ND         ND
Soluble Chromium (III) (Cr III)         460 mg/kg         5         -         ND         ND           Soluble Mercury (Hg)         94 mg/kg         10          ND         ND           Soluble Selenium (Se)         460 mg/kg         10          ND         ND           Soluble Boron (B)         15000 mg/kg         50          ND         ND           Soluble Cobalt (Co)         130 mg/kg         10          ND         ND           Soluble Manganese (Mn)         15000 mg/kg         50          ND         ND           Soluble Strontium (Sr)         56000 mg/kg         50          ND         ND           Soluble Zinc (Zn)         46000 mg/kg         50          ND         ND
Soluble Mercury (Hg)         94         mg/kg         10          ND         ND           Soluble Selenium (Se)         460         mg/kg         10          ND         ND           Soluble Boron (B)         15000         mg/kg         50          ND         ND           Soluble Cobalt (Co)         130         mg/kg         10          ND         ND           Soluble Manganese (Mn)         15000         mg/kg         50          ND         ND           Soluble Strontium (Sr)         56000         mg/kg         50          ND         ND           Soluble Zinc (Zn)         46000         mg/kg         50          ND         ND
Soluble Selenium (Se)         460 mg/kg         10 ND ND           Soluble Boron (B)         15000 mg/kg         50 ND ND           Soluble Cobalt (Co)         130 mg/kg         10 ND ND           Soluble Manganese (Mn)         15000 mg/kg         50 ND ND           Soluble Strontium (Sr)         56000 mg/kg         50 ND ND           Soluble Zinc (Zn)         46000 mg/kg         50 ND ND
Soluble Boron (B)         15000 mg/kg         50 ND ND           Soluble Cobalt (Co)         130 mg/kg         10 ND ND           Soluble Manganese (Mn)         15000 mg/kg         50 ND ND           Soluble Strontium (Sr)         56000 mg/kg         50 ND ND           Soluble Zinc (Zn)         46000 mg/kg         50 ND ND
Soluble Cobalt (Co)         130         mg/kg         10          ND         ND           Soluble Manganese (Mn)         15000         mg/kg         50          ND         ND           Soluble Strontium (Sr)         56000         mg/kg         50          ND         ND           Soluble Zinc (Zn)         46000         mg/kg         50          ND         ND
Soluble Manganese (Mn)         15000 mg/kg         50 ND ND           Soluble Strontium (Sr)         56000 mg/kg         50 ND ND           Soluble Zinc (Zn)         46000 mg/kg         50 ND ND
Soluble Zinc (Zn) 46000 mg/kg 50 ND ND
· ·
Soluble Copper (Cu) 7700 ma/ka 50 ND ND
Soluble Aluminum (Al)         70000 mg/kg         50 ND ND           Soluble Nickel (Ni)         930 mg/kg         10 ND ND
Soluble Nickel (Ni)         930 mg/kg         10 ND         ND         ND           Soluble Tin (Sn)         180000 mg/kg         4.9 ND         ND
Soluble Organic Tin* 12 ND ND
Soluble Chromium (VI) (Cr VI)  0.2 mg/kg  0.18 - ND  ND
Conclusion PASS PASS PASS
Test Item(s) <u>Limit</u> <u>Unit</u> <u>MDL</u> <u>019</u> <u>020</u> <u>021</u>
Soluble Lead (Pb) 160 mg/kg 10 ND
Soluble Antimony (Sb) 560 mg/kg 10 ND ND ND Soluble Arsenic (As) 47 mg/kg 10 ND ND ND
Soluble Barium (Ba)  18750 mg/kg 50 ND ND ND
Soluble Cadmium (Cd) 17 mg/kg 5 ND ND ND
Soluble Chromium (III) (Cr III) 460 mg/kg 5 ND ND ND
Soluble Mercury (Hg) 94 mg/kg 10 ND ND ND
Soluble Selenium (Se) 460 mg/kg 10 ND ND ND
Soluble Boron (B) 15000 mg/kg 50 ND
Soluble Cobalt (Co) 130 mg/kg 10 ND ND ND Soluble Manganese (Mn) 15000 mg/kg 50 ND ND ND
Soluble Manganese (Mn) 15000 mg/kg 50 ND ND ND Soluble Strontium (Sr) 56000 mg/kg 50 ND ND ND
Soluble Zinc (Zn)  46000 mg/kg 50 ND ND ND
Soluble Copper (Cu) 7700 mg/kg 50 ND ND ND
Soluble Aluminum (Al) 70000 mg/kg 50 ND ND ND
Soluble Nickel (Ni) 930 mg/kg 10 ND ND ND
Soluble Tin (Sn) 180000 mg/kg 4.9 ND
Soluble Organic Tin* 12 ND ND ND Soluble Chromium (VI) (Cr VI) 0.2 mg/kg 0.18 ND ND ND
Soluble Chromium (VI) (Cr VI) 0.2 mg/kg 0.18 ND ND ND Conclusion PASS PASS PASS
Test Item(s) Limit Unit MDL 022 023
Soluble Lead (Pb) 160 mg/kg 10 ND ND
Soluble Antimony (Sb) 560 mg/kg 10 ND ND
Soluble Arsenic (As) 47 mg/kg 10 ND ND
Soluble Barium (Ba)  18750 mg/kg  50 ND ND  Soluble Codmium (Cd)
Soluble Cadmium (Cd) 17 mg/kg 5 ND ND Soluble Chromium (III) (Cr III) 460 mg/kg 5 ND ND
Soluble Mercury (Hg)  94 mg/kg 10 ND ND
Soluble Selenium (Se) 460 mg/kg 10 ND ND
Soluble Boron (B) 15000 mg/kg 50 ND ND



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Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND	
Soluble Organic Tin*	12	-	-	ND	ND	
Soluble Chromium (VI) (Cr	VI) 0.2	mg/kg	0.18	ND	ND	
Conclusion	•			PASS	PASS	

#### Notes:

- (1) For sample 009~011, 014~015, 018, 019~022: Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3:2013+A1:2014.
- (2) As received, the test portion of 004, 012, 016 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN71-3:2013+A1:2014
- (3) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3:2013+A1:2014

## Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA17-178198.001	Kelly film with multi color printing(Instep)
SN2	SHA17-178198.002	White nonwoven film (Inner instep)
SN3	SHA17-178198.003	Blue webbing(Shoestring)
SN4	SHA17-178198.004	Green coating(Lace hoop)
SN5	SHA17-178198.005	Blackish green band with blackish green sewing thread(Instep)
SN6	SHA17-178198.006	Blackish green film with white words with blackish green sewing thread(Instep)
SN7	SHA17-178198.007	Blackish green leather with white words with multi color pattern with adhesive (Intep)
SN8	SHA17-178198.008	White soft plastic with blackish green leptonema printing(Upper,tread)
SN9	SHA17-178198.009	Blue plastic (Stand)
SN10	SHA17-178198.010	Vivid kelly plastic (Wheel)
SN11	SHA17-178198.011	Vivind blackish green plastic (Wheel)
SN12	SHA17-178198.012	White coating(Wheel)
SN13	SHA17-178198.013	Blackish green plastic (Tread,connection)
SN14	SHA17-178198.014	White plastic (Connection)
SN15	SHA17-178198.015	Light pink film with multi color butterfly printing(Instep)
SN16	SHA17-178198.016	Pink coating(Lace hoop)
SN17	SHA17-178198.017	Pink band with pink sewing thread(Instep)
SN18	SHA17-178198.018	Pink film with black words with pink sweing thread(Instep)
SN19	SHA17-178198.019	Pink leather with white words with multi color pattern with adhesive(Intep)
SN20	SHA17-178198.020	White soft plastic with pink leptonema printing(Upper,tread)



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SN21 SHA17-178198.021 Vivid light pink plastic (Wheel)
SN22 SHA17-178198.022 Vivind pink plastic (Wheel)
SN23 SHA17-178198.023 Pink plastic (Tread,connection)

#### Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit(3) ND = Not Detected ( < MDL )</li>

(4) "-" = Not Regulated

N.B.: - Only applicable clauses were shown.

## Sample Photo:





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\*\*\* End of Report \*\*\*



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