

Test Report

Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 1 of 15

Applicant: NINGBO SWAN SPORTS APPLIANCE MANUFACTURING CO., LTD.

Address: NO.51, LANE 776, YUFAN EAST ROAD, ZHENHAI, NINGBO, CHINA

The following merchandise was (were) submitted and identified by Applicant as:

Sample Name: PATIN PRO

Sample Model: TE-281

P/O No.: THK-17081

Manufacturer: Ningbo Swan Sports Appliance Manufacturing Co., Ltd.

Supplier: Ningbo Swan Sports Appliance Manufacturing Co., Ltd.

Sample Size: 3

Packaging Provided No

Labelled Age Group: --

Tested Age Grading: 3+

Appropriate Age Grading: 3+

Applicant's Specified 3+

Testing Age Group:

Sample Received Date: Aug. 15, 2017

Test Period: Aug. 15, 2017 to Aug. 21, 2017

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	EN 71-1:2014, European Standard for "Safety of toys" - Physical and Mechanical Properties (Excluding Section 4.8, 7.1, 7.10)	PASS
2	Submitted sample	EN 71-2:2011+A1:2014, European Standard for "Safety of toys" - Flammability	PASS
3	Tested materials of submitted samples	Client's requirements on Migration of certain elements	PASS

Signed for and on Behalf of CTT

Hialry



Hialry He/ Technical Manager
Consumer Testing Technology Co., Ltd.

Signed for and on Behalf of CTT

Michael Wang



Michael Wang / Technical Manager
Consumer Testing Technology Co., Ltd.

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Test Result(s):

Mechanical and Physical Test - EN 71-1:2014

Section	Testing Items	Assessment
		Inline skates/ inline skates entirety
4	General requirements	PASS
4.1	Material cleanliness	PASS
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	PASS
4.8	Points and metallic wires	NR*1
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	PASS
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 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
5	Toys intended for children under 36 months	
5.1	General requirements:	NA

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5.2	Soft-filled toys and soft-filled parts of 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 fibers	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	NR*
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, inline skates, skateboards and certain other ride-on toys	NR*
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquids-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

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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 300mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

- Note:**
1. NA = Not Applicable
 2. NR = Not Requested
 3. "" = Per client's requirement, the packaging was not evaluated.
 4. "" = Per client's requirement, Section 4.8 points and metallic wires was not evaluated.

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:

1. 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.

- All the above markings were not present.

The submitted samples were undergone the use and abuse tests in accordance with the EN 71-1:2014.

Testing Items	Parameter
	Inline skates/ inline skates entirety
Torque test	0.34Nm
Tension test	90N
Drop test	5×850mm
Compression test	110N
Impact test	1×1Kg×100mm

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Test Report

Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 5 of 15

Test Result(s):

Flammability - EN 71-2:2011+A1:2014

Section	Testing Items	Assessment
		Inline skates/ inline skates entirety
4.1	General requirements	PASS
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

Note: 1. NA = Not Applicable.

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Test Report

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Date: Aug. 21, 2017

Page 6 of 15

Test Result(s):

Migration of Certain Elements

Method: With reference to EN 71-3:2013+A1:2014 Annex E & F, analyzed by Inductively Coupled Plasma Optical Emission spectroscopy (ICP-OES) and Ion Chromatograph Ultraviolet spectroscopy (IC-UV).

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)			
			1	2	3	4
Aluminium (Al)	5	70000	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	5	560	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	47	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5	18750	N.D.	N.D.	N.D.	8
Boron (B)	5	15000	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	17	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	460	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.15	0.2	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5	130	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5	7700	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	5	160	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5	15000	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	94	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5	930	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5	460	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5	56000	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	180000	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5	46000	N.D.	N.D.	N.D.	13
Conclusion(s)			PASS	PASS	PASS	PASS

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Test Report

Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 7 of 15

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)			
			5	6	7	8
Aluminium (Al)	5	70000	7	N.D.	7	N.D.
Antimony (Sb)	5	560	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	47	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5	18750	N.D.	N.D.	N.D.	N.D.
Boron (B)	5	15000	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	17	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	460	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.15	0.2	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5	130	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5	7700	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	5	160	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5	15000	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	94	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5	930	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5	460	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5	56000	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	180000	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5	46000	N.D.	N.D.	N.D.	1324
Conclusion(s)			PASS	PASS	PASS	PASS

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Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 8 of 15

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)			
			9	10	11	12
Aluminium (Al)	5	70000	N.D.	N.D.	6	8
Antimony (Sb)	5	560	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	47	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5	18750	N.D.	N.D.	N.D.	N.D.
Boron (B)	5	15000	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	17	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	460	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.15	0.2	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5	130	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5	7700	N.D.	N.D.	6	6
Lead (Pb)	5	160	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5	15000	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	94	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5	930	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5	460	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5	56000	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	180000	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5	46000	N.D.	N.D.	22	14
Conclusion(s)			PASS	PASS	PASS	PASS

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Date: Aug. 21, 2017

Page 9 of 15

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)			
			13	14	15	16
Aluminium (Al)	5	70000	8	8	N.D.	10
Antimony (Sb)	5	560	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	47	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5	18750	8	N.D.	18	N.D.
Boron (B)	5	15000	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	17	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	460	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.15	0.2	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5	130	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5	7700	N.D.	6	N.D.	N.D.
Lead (Pb)	5	160	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5	15000	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	94	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5	930	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5	460	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5	56000	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	180000	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5	46000	85	11	20	11
Conclusion(s)			PASS	PASS	PASS	PASS

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Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 10 of 15

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)
			17
Aluminium (Al)	5	70000	N.D.
Antimony (Sb)	5	560	N.D.
Arsenic (As)	2.5	47	N.D.
Barium (Ba)	5	18750	N.D.
Boron (B)	5	15000	N.D.
Cadmium (Cd)	5	17	N.D.
Chromium(III) (Cr ³⁺)	2.0	460	N.D.
Chromium(VI) (Cr ⁶⁺)	0.15	0.2	N.D.
Cobalt (Co)	5	130	N.D.
Copper (Cu)	5	7700	N.D.
Lead (Pb)	5	160	N.D.
Manganese (Mn)	5	15000	N.D.
Mercury (Hg)	5	94	N.D.
Nickel (Ni)	5	930	N.D.
Selenium (Se)	5	460	N.D.
Strontium (Sr)	5	56000	N.D.
Tin (Sn)	2.5	180000	N.D.
Zinc (Zn)	5	46000	6
Conclusion(s)			PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

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Test Result(s):

Migration of Certain Elements (Organic Tin)

Method: With reference to EN 71-3:2013+A1:2014 Annex G, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg) ☆			
			1	2	3	4
Methyl Tin(MeT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Butyl Tin(BuT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Tin(DBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tributyl Tin(TBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tetrabutyl Tin(TeBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Monooctyl Tin(MOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diethyl Tin(DOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dipropyl Tin(DProT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diphenyl Tin(DPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Triphenyl Tin(TPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Sum of Organic Tins		12	N.D.	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	PASS

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg) ☆			
			5	6	7	8
Methyl Tin(MeT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Butyl Tin(BuT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Tin(DBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tributyl Tin(TBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tetrabutyl Tin(TeBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Monooctyl Tin(MOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diethyl Tin(DOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dipropyl Tin(DProT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diphenyl Tin(DPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Triphenyl Tin(TPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Sum of Organic Tins		12	N.D.	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	PASS

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Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg) ☆			
			9	10	11	12
Methyl Tin(MeT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Butyl Tin(BuT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Tin(DBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tributyl Tin(TBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tetrabutyl Tin(TeBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Monooctyl Tin(MOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diocetyl Tin(DOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dipropyl Tin(DProT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diphenyl Tin(DPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Triphenyl Tin(TPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Sum of Organic Tins		12	N.D.	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	PASS

Substance	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg) ☆			
			13	14	15	16
Methyl Tin(MeT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Butyl Tin(BuT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Tin(DBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tributyl Tin(TBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Tetrabutyl Tin(TeBT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Monooctyl Tin(MOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diocetyl Tin(DOT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Dipropyl Tin(DProT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Diphenyl Tin(DPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Triphenyl Tin(TPhT)	0.2	--	N.D.	N.D.	N.D.	N.D.
Sum of Organic Tins		12	N.D.	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	PASS

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Test Report

Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 13 of 15

Substance	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg) ☆
			17
Methyl Tin(MeT)	0.2	--	N.D.
Butyl Tin(BuT)	0.2	--	N.D.
Dibutyl Tin(DBT)	0.2	--	N.D.
Tributyl Tin(TBT)	0.2	--	N.D.
Tetrabutyl Tin(TeBT)	0.2	--	N.D.
Monooctyl Tin(MOT)	0.2	--	N.D.
Diocetyl Tin(DOT)	0.2	--	N.D.
Dipropyl Tin(DProT)	0.2	--	N.D.
Diphenyl Tin(DPhT)	0.2	--	N.D.
Triphenyl Tin(TPhT)	0.2	--	N.D.
Sum of Organic Tins		12	N.D.
Conclusion(s)			PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. "--" = Not Applicable.
 3. N.D. = Not Detected (< RL).
 4. RL = Reporting Limit.
 5. "☆" = The migration of organic tin is expressed as tributyltin.

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Test Material List:

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Gray transparent plastic with gray paint	Wheel
2	Black plastic	Inside of wheel
3	Black plastic	Inline skates body
4	Black leatherette	Fixing band
5	Black synthetic fiber	Magic tape
6	Black plastic	Fixing band
7	Jacinth plastic	Press-button
8	Black/orange overlap paint	Coating of wafer
9	Orange plastic	Irregular accessory
10	Black plastic	Base of irregular accessory
11	Black synthetic fiber	Net
12	Black synthetic fiber	Lining
13	Black foam	Interlayer
14	Gray foam	Interlayer
15	Black leatherette with orange paint	Tongue
16	Black synthetic fiber	Lace
17	Black plastic	Tag

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Test Report

Report No.: DGCTT170830427EN

Date: Aug. 21, 2017

Page 15 of 15

Photo of Sample:



End of Report

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