



財團法人台灣玩具暨生活用品研發檢測中心

Taiwan Center of R&D and Testing for Commodities

10F., No.61, Dongxing Rd., Xinyi Dist., Taipei City 110403, Taiwan (R.O.C.)

110403 台北市信義區東興路61號10樓 TEL:(02)8768-2901 FAX:(02)8768-2909

www.ttrd.org.tw

E-mail:service@ttrd.org.tw

## ==TEST REPORT==

NO.: 11102083E

DATE: Feb 22, 2022

Applicant: GOOD KIDS TOY CO., LTD.

Address: No.463, Xidong Rd., Sanxia Dist., New Taipei City 237, Taiwan (R.O.C.)

Type of Product: iSport 4-ring basketball stand set / SC60421

Age Grading: FOR 3 YEARS AND ABOVE.

Country of Product: MADE IN CHINA.

Type of investigation required:

1. According to European standard EN 71

Part 1:2014+A1:2018,

Part 2:2011+A1:2014,

Part 3:2019

2. Phthalate (Annex XVII Items 51 & 52 Of The REACH Regulation (EC) No. 1907/2006).

**Conclusion:** 1. The submitted samples comply with the applicable mechanical physical, flammability and migration for certain elements test requirement European EN 71 Part 1, 2, 3.  
2. Phthalates in toys and childcare articles comply with Annex XVII Items 51 & 52 Of The REACH Regulation (EC) No. 1907/2006 to Restrictions.  
3. Limits of aluminium migration according to Commission Directive 2019/1922.

REMARK : 1. This report is limited to the test samples only.

2. Disclaimer: This inspection is not carried out in accordance with the certification specifications of Taiwan Accreditation Foundation (TAF); according to TAF-CNLA-J13, the TAF accreditation symbol also cannot be used on this report.

BILL.CHEN  
TESTING SECTION ENGINEER

W.H.WANG  
TESTING SECTION CHIEF

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M.Y.WU  
VICE GENERAL MANAGER

文件表格編號：S084 第一版



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TEST RESULTS:

EN 71 Part 1 : 2014+A1:2018-Mechanical and physical properties

CLAUSE	TESTING ITEM	ASSESSMENT
4.1	Material	P
4.7	Edges	P
4.8	Points and wires	P
4.16	Heavy immobile toys	P
7.1	General	P
7.2	Toys not intended for children under 36 months	P

EN 71 Part 2: 2011+A1:2014-Flammability of Toys

CLAUSE	TESTING ITEM	ASSESSMENT
4.1	General	P

Remark: P=Pass NS=Non-State F=Failure Fuc=Function



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EN 71 Part 3: 2019 - 19 Toxic Element Migration Test

(A) Test result

Category III: Scraped-off

Element determination: By ICP-MS Spectrometers								
Test amounts shown are in mg/kg								
ELEMENT	A	B	C	D	E	F	DL	LIMIT
ALUMINIUM(Al)	6.02	0.96	0.88	0.68	ND	3.37	0.5	*28130
ANTIMONY(Sb)	ND	ND	ND	ND	ND	ND	0.15	560
ARSENIC(As)	ND	ND	ND	ND	ND	ND	0.15	47
BARIUM(Ba)	0.28	0.27	0.28	0.25	0.29	0.25	0.15	18750
BORON(B)	1.37	ND	ND	ND	ND	ND	0.5	15000
CADMIUM(Cd)	ND	ND	ND	ND	ND	ND	0.15	17
CHROMIUM(III) (Cr III)	ND	ND	ND	ND	ND	ND	-	460
CHROMIUM(VI) (Cr VI)	ND	ND	ND	ND	ND	ND	-	0.053
COBALT(Co)	ND	ND	ND	ND	ND	ND	0.15	130
COPPER(Cu)	0.30	0.74	0.47	0.68	0.57	0.24	0.15	7700
LEAD(Pb)	ND	ND	ND	ND	ND	ND	0.15	23
MANGANESE(Mn)	0.31	0.42	0.25	0.29	0.31	0.30	0.15	15000
MERCURY(Hg)	ND	ND	ND	ND	ND	ND	0.15	94
NICKEL(Ni)	0.26	0.81	ND	ND	ND	ND	0.15	930
SELENIUM(Se)	ND	ND	ND	ND	ND	ND	0.15	460
STRONTIUM(Sr)	4.03	1.96	1.52	1.85	1.90	2.07	0.15	56000
TIN(Sn)	ND	ND	ND	ND	ND	ND	0.15	180000
ORGANIC TIN	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	-	12
ZINC(Zn)	9.31	5.01	ND	6.06	0.58	2.26	0.15	46000



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Element determination: By ICP-MS Spectrometers								
Test amounts shown are in mg/kg								
ELEMENT	G	H	I	J	K	L	DL	LIMIT
ALUMINIUM(Al)	3.43	2.82	3.00	3.45	3.61	0.66	0.5	*28130
ANTIMONY(Sb)	ND	ND	ND	ND	ND	ND	0.15	560
ARSENIC(As)	ND	ND	ND	ND	ND	ND	0.15	47
BARIUM(Ba)	0.26	0.21	0.33	0.31	0.21	0.33	0.15	18750
BORON(B)	ND	ND	ND	ND	ND	ND	0.5	15000
CADMIUM(Cd)	ND	ND	ND	ND	ND	ND	0.15	17
CHROMIUM(III) (Cr III)	ND	ND	ND	ND	ND	ND	-	460
CHROMIUM(VI) (Cr VI)	ND	ND	ND	ND	ND	ND	-	0.053
COBALT(Co)	ND	ND	ND	ND	ND	ND	0.15	130
COPPER(Cu)	0.22	0.22	0.30	0.25	0.51	0.63	0.15	7700
LEAD(Pb)	ND	ND	ND	ND	ND	ND	0.15	23
MANGANESE(Mn)	0.26	0.27	0.32	0.36	0.26	0.30	0.15	15000
MERCURY(Hg)	ND	ND	ND	ND	ND	ND	0.15	94
NICKEL(Ni)	ND	ND	ND	ND	ND	0.15	0.15	930
SELENIUM(Se)	ND	ND	ND	ND	ND	ND	0.15	460
STRONTIUM(Sr)	1.83	1.82	2.17	2.39	1.94	2.03	0.15	56000
TIN(Sn)	ND	ND	ND	ND	ND	ND	0.15	180000
ORGANIC TIN	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	-	12
ZINC(Zn)	2.01	1.99	2.15	4.67	ND	5.20	0.15	46000



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Element determination: By ICP-MS Spectrometers								
Test amounts shown are in mg/kg								
ELEMENT	M	N	O	P	Q	R	DL	LIMIT
ALUMINIUM(Al)	0.74	1.20	3.78	1.83	1.04	1.77	0.5	*28130
ANTIMONY(Sb)	1.06	1.80	0.36	ND	0.40	0.89	0.15	560
ARSENIC(As)	ND	ND	ND	ND	ND	ND	0.15	47
BARIUM(Ba)	0.40	0.37	1.78	0.81	2.61	0.88	0.15	18750
BORON(B)	0.80	ND	1.71	0.52	ND	0.77	0.5	15000
CADMIUM(Cd)	ND	ND	ND	ND	ND	ND	0.15	17
CHROMIUM(III) (Cr III)	ND	ND	ND	ND	ND	ND	-	460
CHROMIUM(VI) (Cr VI)	ND	ND	ND	ND	ND	ND	-	0.053
COBALT(Co)	ND	ND	ND	ND	ND	ND	0.15	130
COPPER(Cu)	0.70	0.60	0.68	0.67	0.60	0.74	0.15	7700
LEAD(Pb)	ND	ND	ND	ND	0.40	ND	0.15	23
MANGANESE(Mn)	0.31	0.35	0.97	0.72	0.33	0.46	0.15	15000
MERCURY(Hg)	ND	ND	ND	ND	ND	ND	0.15	94
NICKEL(Ni)	ND	ND	ND	ND	ND	ND	0.15	930
SELENIUM(Se)	ND	ND	ND	ND	ND	ND	0.15	460
STRONTIUM(Sr)	1.80	1.93	4.27	2.14	2.20	2.49	0.15	56000
TIN(Sn)	ND	ND	0.17	ND	ND	ND	0.15	180000
ORGANIC TIN	<0.37	<0.37	<0.42	<0.37	<0.37	<0.37	-	12
ZINC(Zn)	2.20	2.35	5.84	2.26	2.16	1.81	0.15	46000



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Element determination: By ICP-MS Spectrometers								
Test amounts shown are in mg/kg								
ELEMENT	S	T	U	V	W	X	DL	LIMIT
ALUMINIUM(Al)	2.55						0.5	*28130
ANTIMONY(Sb)	ND						0.15	560
ARSENIC(As)	ND						0.15	47
BARIUM(Ba)	252.32						0.15	18750
BORON(B)	ND						0.5	15000
CADMIUM(Cd)	ND						0.15	17
CHROMIUM(III) (Cr III)	ND						-	460
CHROMIUM(VI) (Cr VI)	ND						-	0.053
COBALT(Co)	ND						0.15	130
COPPER(Cu)	0.54						0.15	7700
LEAD(Pb)	ND						0.15	23
MANGANESE(Mn)	1.97						0.15	15000
MERCURY(Hg)	ND						0.15	94
NICKEL(Ni)	ND						0.15	930
SELENIUM(Se)	ND						0.15	460
STRONTIUM(Sr)	22.25						0.15	56000
TIN(Sn)	0.65						0.15	180000
ORGANIC TIN	<1.59						-	12
ZINC(Zn)	2.50						0.15	46000

\* Limits of aluminium migration according to Commission Directive 2019/1922



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A: Soft plastic(ball): red(ink) .....	W: 0.4169 g.
B: Soft plastic(ball): light blue(ink).....	W: 0.4297 g.
C: Soft plastic(ball): green(ink) .....	W: 0.4498 g.
D: Soft plastic(ball): purple(ink) .....	W: 0.4724 g.
E: Soft plastic: blue .....	W: 0.4279 g.
F: Soft plastic(circle pad): red(ink) .....	W: 0.4434 g.
G: Soft plastic(circle pad): yellow(ink) .....	W: 0.4629 g.
H: Soft plastic(circle pad): blue(ink).....	W: 0.4874 g.
I: Soft plastic(circle pad): green(ink) .....	W: 0.4151 g.
J: Soft plastic(circle pad): orange(ink) .....	W: 0.4243 g.
K: Soft plastic(circle pad): purple(ink).....	W: 0.4862 g.
L: Plastic: blue .....	W: 0.4633 g.
M: Rope: orange.....	W: 0.4567 g.
N: Rope: white .....	W: 0.4751 g.
O: Rope: black .....	W: 0.4604 g.
P: Nylon bag: blue(ink).....	W: 0.4247 g.
Q: Nylon fabric: black .....	W: 0.4751 g.
R: Net fabric: black .....	W: 0.4821 g.
S: Ink on the metal .....	W: 0.1857 g.



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Remarks: -Unless specified, determination of Chromium (III), Chromium(VI) and Organic tin was based on elemental analysis.

-Organic tin test result was expressed as tributyl tin.

mg/kg = milligram per kilogram

ND = Not detected

DL = Detection limit

**(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 coloring pencils, chalk, crayons, modeling 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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### 2. The Phthalates contents: (unit:%)

Phthalates contents determination: By Gas Chromatographic-Mass Spectrometric (GC-MS).

#### (1).Plasticized material in toys and childcare articles:

CLAUSE	LIMIT	SAMPLE A	SAMPLE B	SAMPLE C
DIETHYL HEXYL PHTHALATE (DEHP)		ND	ND	ND
DIBUTYL PHTHALATE (DBP)		ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)		ND	ND	ND
DI-(ISO-BUTYL) PHTHALATE (DIBP)		ND	ND	ND
SUM OF DEHP, DBP, BBP&DIBP	0.1	ND	ND	ND

CLAUSE	LIMIT	SAMPLE D	SAMPLE E	SAMPLE F
DIETHYL HEXYL PHTHALATE (DEHP)		ND	ND	ND
DIBUTYL PHTHALATE (DBP)		ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)		ND	ND	ND
DI-(ISO-BUTYL) PHTHALATE (DIBP)		ND	ND	ND
SUM OF DEHP, DBP, BBP&DIBP	0.1	ND	ND	ND

#### (2).Plasticized material in toys and childcare articles which can be placed in the mouth by children

CLAUSE	LIMIT	SAMPLE A	SAMPLE B	SAMPLE C
DI-(ISO-NONYL)PHTHALATE (DINP)		ND	ND	ND
DI-(ISO-DECYL)PHTHALATE (DIDP)		ND	ND	ND
DI-(N-OCTYL)PHTHALATE (DNOP)		ND	ND	ND
SUM OF DINP, DIDP & DNOP	0.1	ND	ND	ND

CLAUSE	LIMIT	SAMPLE D	SAMPLE E	SAMPLE F
DI-(ISO-NONYL)PHTHALATE (DINP)		ND	ND	ND
DI-(ISO-DECYL)PHTHALATE (DIDP)		ND	ND	ND
DI-(N-OCTYL)PHTHALATE (DNOP)		ND	ND	ND
SUM OF DINP, DIDP & DNOP	0.1	ND	ND	ND



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NO.: 11102083E

- A: Soft plastic(ball): red(ink), light blue(ink) ..... W: 2.5319 g.
- B: Soft plastic(ball): green(ink), purple(ink)..... W: 2.5043 g.
- C: Soft plastic: blue ..... W: 2.5217 g.
- D: Soft plastic(circle pad): red(ink), yellow(ink), blue(ink) ..... W: 2.5003 g.
- E: Soft plastic(circle pad): green(ink), orange(ink), purple(ink)..... W: 2.5306 g.
- F: Plastic: blue ..... W: 2.5110 g.

THE MANUFACTURERS SENT THIS SAMPLE TO TCC FOR INSPECTING.

THE REPORT SHOULD BE ATTACHED WITH THE PICTURE OF PRODUCT, OTHERWISE INVALID.

